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P. 276

1992 CUMULATIVE INDEX



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AEROSPACE MEDICINE AND BIOLOGY

1992 CUMULATIVE INDEX

INTRODUCTION

WHAT THIS CUMULATIVE INDEX IS

This publication is a cumulative index to the abstracts contained in NASA SP-7011(359) through NASA SP-7011(370) of *Aerospace Medicine and Biology: A Continuing Bibliography*, NASA SP-7011, and by means of supplements, serves as a current abstracting and announcement journal for references on bioscience and biotechnology. It has been compiled through the cooperative efforts of the American Institute of Aeronautics and Astronuatics (AIAA), and the National Aeronautics and Space Administration (NASA). Entries prepared by the two contributing organizations are identified as follows:

- 1. NASA entries by their STAR accession numbers (N92-10000).
- 2. AIAA entries by their IAA accession numbers (A92-10000 series).

HOW THIS CUMULATIVE INDEX IS ORGANIZED

This Cumulative Index includes a subject, personal author, corporate source, foreign technology, contract number, report number, and accession number index.

HOW TO USE THE SUBJECT INDEX

Two types of cross-references appear in the subject index:

1. Use (U) references indicate that the subject term is not "postable," i.e., not a valid term, and that the following term or terms are used instead. For example:

DOSE

U DOSAGE

AIRLINERS

- U COMMERCIAL AIRCRAFT
- U PASSENGER AIRCRAFT
- 2. Narrower Term (NT) references refer the user to more specific headings in the same subject area, under which additional material on the subject may be found. For example:

FATIGUE (BIOLOGY)

NT AUDITORY FATIGUE

NT FLIGHT FATIGUE

NT MUSCULAR FATIGUE

In addition, a searcher may use the title or title and title extension in the index to narrow further his quest for particular items; this is because subject terms may include documents on different aspects of the same subject term. For example:

BIOLOGICAL EFFECT

Vibratory force effect upon biological systems, particularly human organism.

Biological effect of cosmic and solar radiations on human body at high altitudes.

HOW TO USE THE PERSONAL AUTHOR INDEX

All personal authors used in the abstract-section citations in the individual Supplements appear in the index. Differences in translation schemes may require multiple searching on the index for variants of an author's name. For example:

EMELIANOV, M. D.

and

YEMELYANOV, M. D.

HOW TO USE THE CORPORATE SOURCE INDEX

The corporate source index entries are abridged versions of the corporate sources used in the abstract-section citations in the individual Supplements. The corporate source supplementary (organizational component) does not appear in the index. For example:

BOEING CO., SEATTLE, WASH. MILITARY AIRCRAFT SYSTEMS DIV. (Source citation entry) BOEING CO., SEATTLE, WASH. (Source index entry)

HOW TO USE THE FOREIGN TECHNOLOGY INDEX

The foreign technology index identifies research performed outside of the United States. Listings in this index are arranged alphabetically by country of intellectual origin. For example:

CHINA, PEOPLE'S REPUBLIC OF

HOW TO USE THE CONTRACT NUMBER INDEX

All contract numbers that are identified in the abstract-section citations in the individual Supplements appear in this index. Changes by agencies in the style in which contract numbers are presented may require multiple searching for variants. For example:

AF 33(615)-71-C-1758 F33615-71-C-1758

HOW TO USE THE REPORT NUMBER INDEX

All report numbers that have been assigned by the corporate source, monitoring agency or cataloging activity appear in this index. Variations in cataloging may result in different report number series. For example:

TP-924 ONERA-TP-924

HOW TO USE THE ACCESSION NUMBER INDEX

All documents that were acquired, indexed, and announced in *STAR* during the year which have been assigned a unique identification number appear in this index. For example:

N92-10001 N92-10002

IDENTIFICATION OF DESIRED SUPPLEMENT

The abstract and descriptive cataloging for any accession number selected from the indexes may be found in the appropriate Supplement. The page-number range of each Supplement appears on the inside front cover of this index. Once the range of page numbers containing the selected accession number is located in the second column, the desired supplement number will be found in the first column. For example:

Page 248 will be found in Supplement 365

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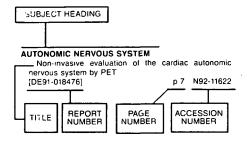
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The subject heading is a key to the subject content of the document. The title is used to provide a description of the subject matter. When the title is insufficiently descriptive of document content, a title extension is added, separated from the title by three hyphens. The accession number and the page number are included in each entry to assist the user in locating the abstract in the abstract section. If applicable, a report number is also included as an aid in identifying the document. Under any one subject heading, the accession numbers are arranged in sequence.

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ENVIRONMENT SIMULATORS

Progress report on the Biosphere 2 project

[AD-A250669]

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Space Station Freedom environmental database system

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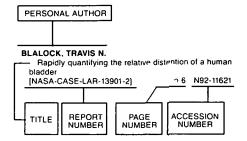
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BILARDO, VINCENT J., JR. Analysis of an initial lunar outpost life support system preliminary design

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F. motion of the cockpit as part of the pilot's information Ventilatory and hematopoietic responses to chronic BODROV, V. A. p 296 A92-44635 Use of training simulators for diagnosing functional hypoxia in two rat strains BLOMQVIST, C. G. Cardiovascular adaptation to O-G (Experiment 294) disorders and for restoration of pilots' work capacity BIRDWELL, J. D. nstrumentation for invasive and noninvasive studies p 280 A92-40751 Prediction of helicopter simulator sickness p 3 A92-11473 ISAF PAPER 9115631 p 118 A92-21878 **BOEHM, HANS DIETER VIKTOR** Integration of an integrated helmet system for PAH2 [MBB-UD-0615-92-PUB] p 446 N92-34016 BLOOMBERG, JACOB J. BIRKMIRE, DEBORAH P. Space flight and changes in spatial orientation The effects of speech intelligibility level on concurrent p 429 A92-57275 [IAF PAPER 92-0888] visual task performance BOFF, KENNETH R. p 127 N92-17052 [AD-A243015] BLOUIN. A. 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C.E.B.A.S.-AQUARACK - The 'second generation Recent spectroscopic findings concerning clay/water interactions at low humidity: Possible applications to Content and composition of free fatty acids in the hardware' and selected results of the scientific frame sarcoplasmic reticulum membranes after exposure to ionizing radiation p 159 A92-28370 models of Martian surface reactivity p 66 N92-13665 [IAF PAPER 91-537] BISHOP, PHILLIP BOGOMOLOV, V. V. Techniques for determination of impact forces during C.E.B.A.S., a closed equilibrated biological aquatic Major medical results of extended flights on space walking and running in a zero-G environment system as a possible precursor for a long-term life support p 134 A92-20990 station Mir in 1986-1990 [NASA-TP-3159] p 121 N92-17022 Test results of the second laboratory prototype of BITTERMAN, BRUCE H. 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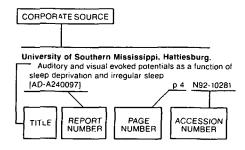
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National Aerospace Medical Centre, Soesterberg

National Council on Radiation Protection and

with the National Cancer Institute

Measurements, Bethesda, MD.

Radiation exposure of civil air carrier crewmembers

Cooperative research and development opportunities

Development of recommendations in the area of ionizing

National Cancer Inst., Bethesda, MD.

Cooperative recent

[NAL-TM-633]

(Netherlands).

Microbial biofilm studies of the Environmental Control

Space Station Freedom environmental database system

Space Station Freedom Water Recovery test total

Space Station Freedom ECLSS design configuration -

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[SAE PAPER 911414]

[SAE PAPER 911379]

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Naval Air Development Center, Warminster, PA. National Defence Research Establishment, Umea Naval Training Systems Center, Orlando, FL. Aircrew critique of high-G centrifuge training: Part 3: Night vision goggle simulation (Sweden). Beta-lactamase genes of Streptomyces badius, What can we change to better serve you? [AD-A245745] n 292 N92-26158 p 147 N92-17432 Streptomyces cacaoi and Streptomyces fradiae: Cloning (AD-A2434961 Naval Weapons Center, China Lake, CA. and expression in Strepotomyces lividans The scope of acceleration-induced loss Fixed wing night carrier aeromedical considerations p 31 N92-12394 consciousness research p 215 N92-21972 p 306 N92-27371 Molecular analysis of beta-lactamases from four species [AD-A247872] Navy Clothing and Textile Research Facility, Natick. Naval Air Station, Pensacola, FL. of Streptomyces: Comparison of amino acid sequences OMPAT Development the Effectiveness of a selected microclimate cooling system with those of other beta-lactamases p 32 N92-12395 neuropsychological/psychomotor performance evaluation in increasing tolerance time to work in the heat. Application Transcriptional induction of Streptomyces cacaoi and OMPAT data and timing support to Navy Physiological Heat Exposure Limits (PHEL) curve beta-lactamase by a beta-lactam compound [AD-A250793] p 430 N92-32504 p 32 N92-12396 Naval Biodynamics Lab., New Orleans, LA. 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Effects of 4 percent and 6 percent carboxyhemoglobin Oesterreichisches Forschungszentrum Seibersdorf Pacific-Sierra Research Corp., Los Angeles, CA. G.m.b.H., Vienna, Biological effects of protracted exposure to ionizing on arrhythmia production in patients with coronary artery Examination of nitrogen fixation by leguminoses and its radiation: Review, analysis, and model development disease [AD-A242981] p 123 N92-17476 [PB91-243246] p 174 N92-19956 secondary effect on grains using N-15 [OEFZS-4580] p 420 N92-34004 technology Palo Alto Coll., San Antonio, TX. Advanced portable personal Office National d'Etudes et de Recherches visualization Forgetting a task: Strategies for enhancing the pilot's p 314 N92-26179 Aerospatiales, Paris (France). memory p 197 N92-21506 [AD-A245819] Circulatory biomechanics effects of accelerations Paris VI Univ. (France). 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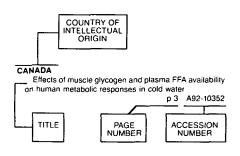
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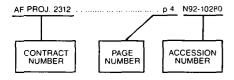
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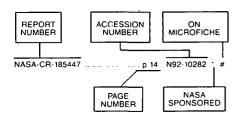
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NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20	p 85 p 440 p 209 p 422 p 210 p 209 p 18	A92-31388 A92-17646 A92-54282 A92-31392 A92-54726 A92-54727 A92-31395 A92-31392 A92-11136	NIH-EY-02648 NIH-EY-06699	p 391 p 375 p 391 p 103 p 116 p 294 p 101 p 381 p 35	A92-50187 A92-50188 A92-50187 A92-50188 A92-20928 A92-21819 A92-43792 A92-20899 A92-51497 A92-16090	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1161 N00014-90-J-1256 N00014-90-J-1648 N00014-90-J-1864	p 85 p 418 p 396 p 120 p 385 p 51 p 123 p 357 p 358 p 15	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-29560 N92-11632
NAS9-18057 NAS9-18069 NAS9-18069 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-IR-390-502	p 85 p 440 p 209 p 422 p 210 p 209 p 18 p 415	A92-31388 A92-17646 A92-54282 A92-31392 A92-54726 A92-54727 A92-31395 A92-31392 A92-11136 A92-54548	NIH-EY-02648 NIH-EY-06699 NIH-GM-17129 NIH-G12-RR-03059-01A1	p 391 p 375 p 391 p 103 p 116 p 294 p 101 p 381 p 35 p 295	A92-50187 A92-50188 A92-50187 A92-50188 A92-20328 A92-21819 A92-43792 A92-20899 A92-51497 A92-16090 A92-44543	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1161 N00014-90-J-1256 N00014-90-J-1864 N00014-90-J-1864 N00014-90-J-1994 N00014-90-J-1094	p 85 p 418 p 396 p 120 p 385 p 51 p 123 p 357 p 358 p 15 p 310	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-29560 N92-11632 N92-27538
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-IR-390-502 NCA2-182	p 85 p 440 p 209 p 422 p 210 p 209 p 18 p 415 p 152	A92-31388 A92-17646 A92-54282 A92-31392 A92-54726 A92-31395 A92-31395 A92-31395 A92-31395 A92-31396 A92-54548 A92-21498	NIH-EY-02648 NIH-EY-06699 NIH-GM-17129 NIH-G12-RR-03059-01A1	p 391 p 375 p 391 p 103 p 116 p 294 p 101 p 381 p 35 p 295 p 328	A92-50187 A92-50188 A92-50188 A92-50188 A92-20928 A92-21619 A92-43792 A92-20899 A92-51497 A92-16090 A92-44543 A92-48097	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1161 N00014-90-J-1256 N00014-90-J-1864 N00014-90-J-1994 N00014-90-J-1994 N00014-90-J-4008 N00014-91-C-0066	p 85 p 418 p 396 p 120 p 385 p 51 p 123 p 357 p 358 p 15 p 310 p 81	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-29560 N92-11632 N92-27538 N92-15535
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-IR-390-502 NCA2-IR-390-502 NCA2-182 NCA2-366	p 85 p 440 p 209 p 422 p 210 p 209 p 18 p 415 p 152 p 447	A92-31388 A92-17646 A92-54282 A92-34392 A92-54726 A92-54727 A92-31395 A92-31392 A92-11136 A92-54548 A92-21498 A92-54947	NIH-EY-02648	P 391 P 375 P 391 P 103 P 116 P 294 P 101 P 381 P 35 P 295 P 328 P 415	A92-50187 A92-50188 A92-50187 A92-50188 A92-20928 A92-21819 A92-43792 A92-20899 A92-51497 A92-16090 A92-44543 A92-44593 A92-44543 A92-44597 A92-54276	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1161 N00014-90-J-1256 N00014-90-J-1256 N00014-90-J-1864 N00014-90-J-1894 N00014-90-J-1994 N00014-90-J-0008 N00014-91-C-0066 N00014-91-C-0268	p 85 p 418 p 396 p 120 p 385 p 51 p 123 p 357 p 358 p 15 p 310 p 81 p 240	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-29560 N92-11632 N92-27538 N92-27538 N92-15535 A92-33192
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-IR-390-502 NCA2-182	p 85 p 440 p 209 p 422 p 210 p 209 p 18 p 415 p 152 p 447 p 279	A92-31388 A92-17646 A92-54282 A92-31392 A92-54726 A92-54727 A92-31395 A92-31392 A92-11136 A92-54548 A92-21498 A92-5454947 A92-33307	NIH-EY-02648	p 391 p 375 p 391 p 103 p 116 p 294 p 101 p 381 p 35 p 295 p 328 p 415 p 381	A92-50187 A92-50188 A92-50187 A92-50188 A92-20928 A92-21819 A92-43792 A92-20899 A92-51497 A92-16090 A92-44543 A92-48097 A92-51497	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1616 N00014-90-J-1648 N00014-90-J-1684 N00014-90-J-1864 N00014-90-J-1994 N00014-90-J-4008 N00014-91-C-0066 N00014-91-C-0268 N00014-91-C-0268	p 85 p 418 p 396 p 120 p 385 p 51 p 123 p 357 p 358 p 15 p 310 p 81 p 240 p 7	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29580 N92-29560 N92-11632 N92-27538 N92-27538 N92-3535 N92-3192 N92-11624
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-1R-390-502 NCA2-182 NCA2-366 NCA2-441	p 85 p 440 p 209 p 422 p 210 p 209 p 18 p 415 p 152 p 447 p 279 p 360	A92-31388 A92-17646 A92-54282 A92-54282 A92-54727 A92-31395 A92-31395 A92-31395 A92-31395 A92-21438 A92-54548 A92-54548 A92-54947 A92-39307 A92-44925	NIH-EY-02648	p 391 p 375 p 391 p 103 p 116 p 294 p 101 p 381 p 35 p 295 p 328 p 415 p 381 p 296	A92-50187 A92-50188 A92-50188 A92-20928 A92-21819 A92-43792 A92-20899 A92-51497 A92-16090 A92-44543 A92-48097 A92-54276 A92-54276 A92-54276 A92-54276	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1616 N00014-90-J-1648 N00014-90-J-1684 N00014-90-J-1864 N00014-90-J-1994 N00014-90-J-4008 N00014-91-C-0066 N00014-91-C-0268 N00014-91-C-0268	p 85 p 418 p 396 p 120 p 385 p 51 p 123 p 357 p 358 p 15 p 310 p 81 p 240 p 7 p 310	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-29560 N92-11632 N92-27538 N92-25535 A92-33192 N92-11624 N92-27822
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-IR-390-502 NCA2-IB2 NCA2-366 NCA2-441	p 85 p 440 p 209 p 422 p 210 p 209 p 18 p 415 p 152 p 447 p 279 p 360 p 324	A92-31388 A92-17646 A92-54282 A92-54282 A92-54726 A92-54727 A92-31395 A92-31395 A92-31392 A92-11136 A92-54548 A92-54548 A92-54947 A92-39307 A92-44925 A92-44651	NIH-EY-02648 NIH-EY-06699 NIH-GM-17129 NIH-G12-RR-03059-01A1 NIH-HD-06016 NIH-HD-07313 NIH-HL-01998 NIH-HL-07212	p 391 p 375 p 391 p 103 p 116 p 294 p 101 p 381 p 295 p 328 p 415 p 381 p 296 p 118	A92-50187 A92-50188 A92-50187 A92-50188 A92-20928 A92-21819 A92-43792 A92-20899 A92-51497 A92-16090 A92-44543 A92-48097 A92-51497 A92-51497 A92-51497 A92-51497 A92-251494	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1161 N00014-90-J-1256 N00014-90-J-1256 N00014-90-J-1864 N00014-90-J-1894 N00014-90-J-1994 N00014-90-J-1994 N00014-91-C-0066 N00014-91-C-0268 N00014-91-J-1243	p 85 p 418 p 396 p 120 p 385 p 51 p 123 p 357 p 358 p 15 p 310 p 310 p 240 p 7 p 310 p 430	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-29560 N92-11632 N92-27538 N92-15535 A92-33192 N92-11624 N92-27622 N92-32344
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-IR-390-502 NCA2-182 NCA2-366 NCA2-441 NCA2-474 NCA2-484	p 85 p 440 p 209 p 422 p 210 p 209 p 18 p 415 p 152 p 447 p 279 p 360 p 324 p 369	A92-31388 A92-17646 A92-54282 A92-31392 A92-54726 A92-54727 A92-31395 A92-31392 A92-11136 A92-54548 A92-21498 A92-21498 A92-39307 A92-44925 A92-44651 N92-28681	NIH-EY-02648	P 391 P 375 P 391 P 103 P 116 P 294 P 101 P 381 P 385 P 295 P 328 P 381 P 296 P 118 P 387	A92-50187 A92-50188 A92-50187 A92-50188 A92-20928 A92-21819 A92-21819 A92-20899 A92-51497 A92-16090 A92-44543 A92-48097 A92-54276 A92-51497 A92-244635 A92-244635 A92-244634 A92-50074	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-161 N00014-90-J-1648 N00014-90-J-1684 N00014-90-J-1864 N00014-90-J-1994 N00014-90-J-1098 N00014-91-C-0268 N00014-91-C-0268 N00014-91-J-1243	p 85 p 418 p 396 p 120 p 385 p 51 p 357 p 358 p 15 p 310 p 81 p 240 p 7 p 7 9 310 p 309	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-11632 N92-11632 N92-15535 N92-15535 N92-15624 N92-27822 N92-27822 N92-27822
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-1R-390-502 NCA2-182 NCA2-366 NCA2-441 NCA2-474 NCA2-484 NCC1-120	p 85 p 440 p 209 p 422 p 210 p 209 p 18 p 415 p 152 p 447 p 360 p 369 p 369 p 432	A92-31388 A92-17646 A92-54282 A92-54282 A92-54727 A92-31395 A92-31395 A92-31395 A92-11136 A92-54548 A92-54548 A92-54549 A92-3498 A92-44851 A92-33007 A92-44851 N92-28681 N92-38825	NIH-EY-02648 NIH-EY-06699 NIH-GM-17129 NIH-G12-RR-03059-01A1 NIH-HD-06016 NIH-HD-07313 NIH-HL-01998 NIH-HL-07212	p 391 p 375 p 391 p 103 p 116 p 294 p 101 p 381 p 35 p 295 p 328 p 415 p 381 p 296 p 387 p 387 p 387 p 387	A92-50187 A92-50188 A92-50187 A92-50188 A92-20328 A92-21819 A92-43792 A92-20899 A92-51497 A92-16090 A92-44543 A92-48097 A92-54276 A92-51497 A92-54276 A92-51497 A92-50074 A92-10355	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1161 N00014-90-J-1256 N00014-90-J-1684 N00014-90-J-1864 N00014-90-J-1994 N00014-90-J-0066 N00014-91-C-0066 N00014-91-C-0268 N00014-91-J-1243 N00014-91-J-1546 N00014-91-J-1546	p 85 p 418 p 396 p 120 p 385 p 51 p 357 p 358 p 15 p 310 p 81 p 240 p 7 p 310 p 39	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-29560 N92-11632 N92-27538 N92-15535 A92-33192 N92-11624 N92-27822 N92-32344 N92-27509 N92-13569
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-IR-390-502 NCA2-182 NCA2-366 NCA2-441 NCA2-474 NCA2-484	P 85 P 440 P 209 P 422 P 210 P 209 P 18 P 415 P 152 P 447 P 369 P 369 P 432 P 158	A92-31388 A92-17646 A92-54282 A92-54282 A92-54727 A92-31395 A92-31395 A92-31395 A92-31396 A92-54548 A92-54548 A92-54947 A92-39307 A92-44651 N92-28681 N92-33825 A92-26332	NIH-EY-02648 NIH-EY-06699 NIH-GM-17129 NIH-G12-RR-03059-01A1 NIH-HD-06016 NIH-HD-07313 NIH-HL-01998 NIH-HL-07212 NIH-HL-07449 NIH-HL-14985	P 391 P 375 P 391 P 103 P 1094 P 101 P 381 P 385 P 295 P 328 P 415 P 381 P 296 P 118 P 387 P 387	A92-50187 A92-50188 A92-50187 A92-50188 A92-20928 A92-21819 A92-43792 A92-20899 A92-51497 A92-16090 A92-44543 A92-48097 A92-51497 A92-51497 A92-51497 A92-51497 A92-51497 A92-51497 A92-50074 A92-50074 A92-10355 A92-4836	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1161 N00014-90-J-1256 N00014-90-J-1864 N00014-90-J-1864 N00014-90-J-1894 N00014-90-J-1894 N00014-91-C-0066 N00014-91-C-0268 N00014-91-J-1243 N00014-91-J-1546 N00014-91-J-1546 N00014-91-J-1903	p 85 p 418 p 396 p 185 p 385 p 123 p 357 p 358 p 15 p 310 p 310 p 340 p 7 p 310 p 309 p 39 p 128	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-29560 N92-11632 N92-27538 N92-15535 A92-33192 N92-27508 N92-27509 N92-27509 N92-27509 N92-32344 N92-27509 N92-13569 N92-13648
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-1R-390-502 NCA2-182 NCA2-366 NCA2-441 NCA2-474 NCA2-484 NCC1-120	P 85 P 440 P 209 P 422 P 210 P 209 P 18 P 415 P 156 P 360 P 324 P 369 P 432 P 431	A92-31388 A92-17646 A92-54282 A92-31392 A92-54726 A92-54727 A92-31395 A92-31392 A92-11136 A92-54548 A92-21498 A92-21498 A92-24947 A92-39307 A92-44825 A92-4651 N92-38881 N92-38255 A92-26332 N92-32559	NIH-EY-02648	P 391 P 375 P 391 P 103 P 116 P 294 P 101 P 381 P 395 P 395 P 387 P 387 P 387 P 304 P 257	A92-50187 A92-50188 A92-50187 A92-50188 A92-20328 A92-21819 A92-43792 A92-20899 A92-51497 A92-16090 A92-44543 A92-48097 A92-54276 A92-51497 A92-54276 A92-51497 A92-50074 A92-10355	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1161 N00014-90-J-1256 N00014-90-J-1684 N00014-90-J-1864 N00014-90-J-1994 N00014-90-J-0066 N00014-91-C-0066 N00014-91-C-0268 N00014-91-J-1243 N00014-91-J-1546 N00014-91-J-1546	p 85 p 418 p 396 p 120 p 385 p 51 p 123 p 357 p 310 p 81 p 240 p 7 p 310 p 430 p 39 p 39 p 39	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-29560 N92-11632 N92-27538 N92-15535 A92-33192 N92-11624 N92-27822 N92-32344 N92-27509 N92-13569
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-IR-390-502 NCA2-IR82 NCA2-366 NCA2-441 NCA2-474 NCA2-474 NCA2-484 NCC1-120 NCC2-127	P 85 P 440 P 209 P 422 P 210 P 209 P 18 P 415 P 152 P 360 P 324 P 369 P 432 P 158 P 431 P 101	A92-31388 A92-17646 A92-54282 A92-31392 A92-54726 A92-54727 A92-31395 A92-31392 A92-11136 A92-54548 A92-21498 A92-21498 A92-24947 A92-39307 A92-44825 A92-4651 N92-38881 N92-38255 A92-26332 N92-32559	NIH-EY-02648 NIH-EY-06699 NIH-GM-17129 NIH-G12-RR-03059-01A1 NIH-HD-06016 NIH-HD-07313 NIH-HL-01998 NIH-HL-07212 NIH-HL-07449 NIH-HL-14985	P 391 P 375 P 391 P 103 P 106 P 294 P 101 P 381 P 395 P 328 P 415 P 387 P 387 P 30 P 304 P 307 P	A92-50187 A92-50188 A92-50187 A92-50188 A92-20328 A92-21819 A92-21819 A92-21819 A92-51497 A92-16090 A92-44543 A92-48097 A92-54276 A92-51497 A92-54276 A92-51497 A92-10355 A92-22844 A92-50074 A92-10355 A92-44636 A92-39127	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1616 N00014-90-J-1684 N00014-90-J-1864 N00014-90-J-1864 N00014-90-J-1864 N00014-90-J-1864 N00014-91-C-0268 N00014-91-C-0268 N00014-91-J-1243 N00014-91-J-1546 N00014-91-J-1903 N00014-91-J-1903	p 85 p 418 p 396 p 120 p 385 p 51 p 123 p 357 p 358 p 310 p 81 p 240 p 309 p 39 p 139 p 1430 p 309 p 319 p 1430 p 310 p	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-17557 N92-19509 N92-11632 N92-15535 N92-15535 N92-15535 N92-17539 N92-17529 N92-27822 N92-27822 N92-27828 N92-13569 N92-13569 N92-13569 N92-13564
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-IR-390-502 NCA2-IR82 NCA2-366 NCA2-441 NCA2-474 NCA2-474 NCA2-484 NCC1-120 NCC2-127	P 85 P 440 P 209 P 422 P 422 P 210 P 209 P 18 P 415 P 324 P 360 P 324 P 360 P 431 P 158 P 431 P 158 P 431 P 158	A92-31388 A92-17646 A92-54282 A92-54282 A92-54726 A92-54727 A92-31395 A92-31392 A92-11136 A92-54548 A92-21498 A92-21498 A92-39307 A92-44925 A92-44651 N92-33825 A92-4651 N92-33825 A92-26332 N92-32539 A92-20899 A92-51497 A92-48395	NIH-EY-02648	P 391 P 375 P 391 P 103 P 116 P 294 P 101 P 385 P 328 P 415 P 381 P 295 P 318 P 387 P 304 P 257 P 118 P 296	A92-50187 A92-50188 A92-50187 A92-50188 A92-20328 A92-21819 A92-43792 A92-20899 A92-51497 A92-16090 A92-44543 A92-48097 A92-51497 A92-51497 A92-51497 A92-51497 A92-51497 A92-51497 A92-51497 A92-44635 A92-22844 A92-50074 A92-10355 A92-24636 A92-39127 A92-22844	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-161 N00014-90-J-1648 N00014-90-J-1648 N00014-90-J-1864 N00014-90-J-1864 N00014-90-J-1864 N00014-91-C-0268 N00014-91-C-0268 N00014-91-J-1243 N00014-91-J-1546 N00014-91-J-1903 N00014-91-J-1903 N00014-91-J-101 N00019-91-C-0149 N00013-98-G-0580 N61339-81-C-0105	p 85 p 418 p 396 p 120 p 385 p 51 p 123 p 358 p 358 p 358 p 310 p 310 p 310 p 340 p 39 p 128 p 401 p 401 p 400 p 334	N92-32571 N92-31558 N92-16548 N92-30531 N92-13586 N92-17557 N92-29398 N92-29560 N92-11632 N92-15535 N92-15535 N92-15535 N92-15624 N92-27802 N92-27802 N92-32344 N92-27509 N92-13569 N92-17648 N92-31444 N92-32434 N92-32434 N92-31584 N92-31584 N92-31584 N92-31584 N92-31584 N92-31584
NAS9-18057 NAS9-18069 NAS9-18085 NAS9-18128 NAS9-18337 NAS9-18477 NAVY PROJECT RS34H20 NCA2-IR-390-502 NCA2-182 NCA2-366 NCA2-441 NCA2-474 NCA2-474 NCA2-484 NCC1-120 NCC2-127	P 85 P 440 P 209 P 422 P 210 P 219 P 18 P 415 P 152 P 447 P 279 P 360 P 324 P 369 P 431 P 158 P 431 P 101 P 365 P 365	A92-31388 A92-17646 A92-54282 A92-54282 A92-54727 A92-31395 A92-31395 A92-1136 A92-54548 A92-21498 A92-54947 A92-39307 A92-44925 A92-44651 N92-28681 N92-28681 N92-26332 A92-51497 A92-46335 A92-46396	NIH-EY-02648 NIH-EY-06699 NIH-GM-17129 NIH-G12-RR-03059-01A1 NIH-HD-06016 NIH-HD-07313 NIH-HL-01998 NIH-HL-07212 NIH-HL-07449 NIH-HL-17331-16 NIH-HL-17331-16 NIH-HL-17731 NIH-HL-17731 NIH-HL-21159 NIH-HL-2296 NIH-HL-22463	P 391 P 375 P 391 P 103 P 116 P 294 P 101 P 381 P 385 P 328 P 415 P 381 P 296 P 387 P 304 P 304 P 118 P 297 P 297	A92-50187 A92-50188 A92-50187 A92-50188 A92-20928 A92-21819 A92-21819 A92-43792 A92-20899 A92-51497 A92-14690 A92-44543 A92-48097 A92-51497 A92-51497 A92-22844 A92-50074 A92-10355 A92-22844 A92-4635 A92-32844 A92-4635 A92-32844 A92-4635 A92-32844 A92-4635 A92-32844 A92-4635 A92-32844 A92-4635 A92-32844 A92-4635 A92-32844 A92-4635 A92-32844 A92-4635 A92-32844 A92-4635 A92-32844 A92-4635 A92-32844 A92-4635 A92-32844 A92-4635 A92-32844 A92-32844 A92-4635	N00014-89-J-1048 N00014-89-J-3187 N00014-90-C-0053 N00014-90-J-1161 N00014-90-J-1256 N00014-90-J-1864 N00014-90-J-1864 N00014-90-J-1864 N00014-91-C-0066 N00014-91-C-0268 N00014-91-J-1243 N00014-91-J-1243 N00014-91-J-1903 N00014-91-J-1903 N00014-91-J-101 N00012-89-G-0580 N81339-81-C-0105 N61339-85-D-0044	p 85 p 418 p 396 p 120 p 385 p 51 p 135 p 357 p 358 p 15 p 358 p 15 p 310 p 309 p 39 p 39 p 39 p 39 p 39 p 39 p 39 p 3	N92-32571 N92-31558 N92-16548 N92-13586 N92-13586 N92-17557 N92-29398 N92-29560 N92-11632 N92-17638 N92-15535 A92-33192 N92-11624 N92-27622 N92-32344 N92-27699 N92-17648 N92-17648 N92-3434 N92-32344 N92-32434 N92-32434 N92-325818 A92-45818
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AD-A246611 AD-A246623 AD-A246695 AD-A246778 AD-A246777 AD-A246777 AD-A246925 AD-A246932 AD-A246932 AD-A246934 AD-A247004 AD-A247014 AD-A247014 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247048 AD-A247148 AD-A247148 AD-A247148 AD-A247148 AD-A247148 AD-A247148			309 309 368 336 355 337 323 181 309 324 357 308 400 355 310 355 310 355 310 366 366 366 366 366 366 367 367 367 367	N92-27501 N92-27537 N92-28286 N92-28286 N92-282857 N92-28557 N92-28515 N92-27350 N92-19008 N92-27509 N92-28107 N92-29186 N92-27331 N92-28135 N92-28396 N92-27337 N92-28877 N92-28877 N92-27829 N92-27829 N92-27829 N92-27829 N92-27839 N92-27844 N92-31980 N92-31980 N92-31981 N92-31981 N92-31981

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	р 33		#	AD-A252309			#	AFOSR-92-0141TR			
	p 31:		#	AD-A252310	p 408	N92-30718	#	AFOSR-92-0142TR	p 402	N92-32105 #	
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AD-A247182	p 37	N92-29538	#	AD-A252332	p 408	N92-30844	#	AFOSR-92-0187TR	p 393	N92-30319 #	
AD-A247185	р 39	N92-31963	#	AD-A252365	p 431	N92-32916	#	AFOSR-92-0189TR			
AD-A247197	p 31	N92-28094	#	AD-A252371			#	AFOSR-92-0203TR	p 400	N92-30325 #	
	р 31		#	AD-A252443			#	AFOSR-92-0204TR	p 311	N92-28050 #	
	p 400		#	AD-A252532			#	AFOSR-92-0206TR			
AD-A247290			#	AD-A252609			#	AFOSR-92-0211TR			
	p 32-		#	AD-A252694			π 4	AFOSR-92-0212TR			
			#				# #	AFOSR-92-0219TR			
	p 40		#	AD-A252715			#	AFOSR-92-0231TR			
	p 323			AD-A252719			#				
	p 430		#	AD-A252801			#	AFOSR-92-0234TR	p 402	N92-31779 #	
	p 418		#	AD-A252938			#	AFOSR-92-0260TR	p 312	N92-28179 #	
	р 370		#	AD-A252954			#	AFOSR-92-0261TR			
	p 329		#	AD-A253012			#	AFOSR-92-0264TR			
AD-A247498	р 397	N92-31905	#	AD-A253015	p 433	N92-33928	#	AFOSR-92-0265TR			
AD-A247669	p 356	N92-28940	#	AD-A253045	p 437	N92-33433	#	AFOSR-92-0267TR	p 358	N92-29591 #	
AD-A247823	p 310	N92-27910	#	AD-A253387			#	AFOSR-92-0299TR	p 356	N92-29119 #	
AD-A247830	p 310	N92-27863	#					AFOSR-92-0300TR	p 356	N92-29146 #	
AD-A247860	p 309	N92-27512	#	AD-D015097	D 144	N92-16558		AFOSR-92-0303TR	p 358	N92-29592 #	
	p 356		#	AD-D015244				AFOSR-92-0307TR	p 338	N92-29179 #	
	р 306		#	7.0 0010211	,			AFOSR-92-0308TR			
AD-A248104			#	AD-E501523	n 410	N92-32023	#	AFOSR-92-0310TR			
	p 357		#	AD-200 1020	p -10	1102 02020	ır	AFOSR-92-0314TR			
AD-A248199			#	ADL-64320-10	n 247	N02-22200	#	AFOSR-92-0316TR			
AD-A248283	p 339		#	ADL-04320-10	p 241	1432-22230	π	AFOSR-92-0347TR			
	p 371		#	AECL-10087	n 40	NO2 12422	ш	AFOSR-92-0360TR			
	p 37		#	AEGL-10067	p 49	N92-12423	#	AFOSR-92-0363TR			
				4 = 00 (ID 0	- 00	1100 4 4500	.,	AFOSR-92-0392TR			
AD-A248338	p 357		#	AECS/IB-6	p 89	N92-14596	#				
	p 324		#					AFOSR-92-0410TR			
	p 311		#	AEHA-75-51-0742-91	p 124	N92-17712	#	AFOSR-92-0413TR			
AD-A248441	p 371		#					AFOSR-92-0559TR			
	p 311		#	AFESC/ESL-TR-90-22	p 190	N92-21021	#	AFOSR-92-0652TR			
	р 393		#					AFOSR-92-0665TR	p 433	N92-33927 #	
AD-A248467	p 400	N92-30320	#	AFIT/CI-CIA-92-010	p 397	N92-31962	#				
	p 400		#					AGARD-AG-308			
AD-A248518	p 358	N92-29503	#	AFIT/CI/CIA-91-022D	p 127	N92-17145	#	AGARD-AG-324	p 33	N92-13547 #	
AD-A248556	р 339	N92-29577	#	AFIT/CI/CIA-91-070	p 122	N92-17194	#				
AD-A248560	p 400	N92-30336	#	AFIT/CI/CIA-91-073			#	AGARD-CP-516	p 168	N92-18972 #	
AD-A248578	p 312	N92-28170	#	AFIT/CI/CIA-91-083			#	AGARD-CP-517	p 181	N92-19008 #	
AD-A248586	p 312	N92-28179	#	AFIT/CI/CIA-91-095			#				
	p 393		#	AFIT/CI/CIA-92-013			#	AI-M-1312	p 83	N92-14587 #	
AD-A248728	p 356	N92-29142	#								
AD-A248743	p 306	N92-27968	#	AFIT/GAE/ENY/91D-22	D 184	N92-19179	#	AIAA PAPER 91-0787	p 247	N92-22330 * #	
	p 430		#					AIAA PAPER 91-3727	p 84	A92-17595 * #	
AD-A248761	p 311	N92-27969	#	AFIT/GE/ENG/91D-17	p 122	N92-17089	#	AIAA PAPER 91-3790	p 85	A92-17646 * #	
AD-A248787	p 408	N92-30615	#	AFIT/GE/ENG/91D-34			#	AIAA PAPER 91-3797		A92-17651 #	
	p 311		#				"	AIAA PAPER 91-3799	p 85	A92-17652 #	
	p 358		#	AFIT/GLM/LSM/91S-44	D 309	N92-27537	#	AIAA PAPER 92-0875	p 198	A92-29637 * #	
	p 393		#				"	AIAA PAPER 92-1000		A92-33192 * #	
	p 355		#	AFIT/GLM/LSR/91S-62	n 368	N92-28286	#	AIAA PAPER 92-1014			
	p 396		#	ATTI GENI COTTO OC	p 000	THE ESEC	,,	AIAA PAPER 92-1015			
	p 385		#	AFIT/GSO/ENG/91D-17	n 122	NG2-17120	#	AIAA PAPER 92-1016		A92-33202 * #	
	p 394		#	Artifasorenarsib-ir	P 122	1432-17120	π	AIAA PAPER 92-1046			
	p 396		#	AFOSR-91-0283TR	n 120	N92-17503	#	AIAA PAPER 92-1047			
	p 401	N92-31392	#					AIAA PAPER 92-1048			
	p 395		#	AFOSR-91-0707TR		N92-11631	#	AIAA PAPER 92-1049			
				AFOSR-91-0708TR		N92-10285	#	AIAA PAPER 92-1094	P 471	MOE-JUEED #	
			#	AFOSR-91-0725TR	D 4	N92-10280	#	AIAA FAFEN 32-1034	- 244	A00 000E0 * #	
	p 329			1-00- 01 0-0- 		1100 44040		ALAA DADED OO 1970			
	p 386	N92-31778	#	AFOSR-91-0727TR	p 2	N92-11613	#	AIAA PAPER 92-1270	p 256	A92-38476 * #	
	p 386	N92-31778 N92-31779	#	AFOSR-91-0739TR	p 2 p 16	N92-11633	#	AIAA PAPER 92-1294	p 256 p 282	A92-38476 * # A92-38491 #	
AD-A250069	p 386	N92-31778 N92-31779 N92-31465		AFOSR-91-0739TRAFOSR-91-0749TR	p 2 p 16 p 14	N92-11633 N92-10284	#	AIAA PAPER 92-1294 AIAA PAPER 92-1311	p 256 p 282 p 282	A92-38476 * # A92-38491 # A92-38501 * #	
AD-A250069 AD-A250173	p 386	N92-31778 N92-31779 N92-31465 N92-28920	# # #	AFOSR-91-0739TRAFOSR-91-0749TRAFOSR-91-0757TR	p 2 p 16 p 14 p 15	N92-11633 N92-10284 N92-10286	# # #	AIAA PAPER 92-1294AIAA PAPER 92-1311AIAA PAPER 92-1313	p 256 p 282 p 282 p 282 p 282	A92-38476 * # A92-38491 # A92-38501 * # A92-38502 * #	
AD-A250069 AD-A250173 AD-A250200	p 386 p 402 p 385 p 338	N92-31778 N92-31779 N92-31465 N92-28920 N92-29144	# # #	AFOSR-91-0739TRAFOSR-91-0757TRAFOSR-91-0757TRAFOSR-91-0758TR	p 2 p 16 p 14 p 15 p 16	N92-11633 N92-10284 N92-10286 N92-11634	# # # #	AIAA PAPER 92-1294AIAA PAPER 92-1313AIAA PAPER 92-1313AIAA PAPER 92-1316	p 256 p 282 p 282 p 282 p 282 p 282	A92-38476 * # A92-38491 # A92-38501 * # A92-38502 * # A92-38503 #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203	p 386 p 402 p 385 p 385 p 385 p 336 p 356	N92-31778 N92-31779 N92-31465 N92-28920 N92-29144 N92-29146	# # # #	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR	p 2 p 16 p 14 p 15 p 16 p 84	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539	# # # # #	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1342	p 256 p 282 p 282 p 282 p 282 p 282 p 256	A92-38476 * # A92-38491 # A92-38501 * # A92-38502 * # A92-38503 # A92-38517 * #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223	p 386 p 402 p 385 p 338 p 338 p 356 p 3 56	N92-31778 N92-31779 N92-31465 N92-28920 N92-29144 N92-29146 N92-29119	# # # # #	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0784TR	p 2 p 16 p 14 p 15 p 16 p 84 p 51	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587	###########	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343	p 256 p 282 p 282 p 282 p 282 p 282 p 256 p 256	A92-38476 * # A92-38501 * # A92-38502 * # A92-38503 # A92-38517 * # A92-38518 * #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223 AD-A250233	p 386 p 402 p 385 p 336 p 356 p 356 p 356 p 3 360 p 3 360 p 3 360	N92-31778 N92-31779 N92-31465 N92-28920 N92-29144 N92-29146 N92-29119 N92-29179	#########	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0784TR AFOSR-91-0911TR	p 2 p 16 p 14 p 15 p 16 p 84 p 51 p 108	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142	###########	AIAA PAPER 92-1394 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344	p 256 p 282 p 282 p 282 p 282 p 256 p 256 p 256	A92-38476 ° # A92-38501 ° # A92-38502 ° # A92-38503	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223 AD-A250233 AD-A250246	p 386 p 402 p 385 p 385 p 356 p 357	N92-31778 N92-31779 N92-31465 N92-28920 N92-29144 N92-29146 N92-29119 N92-29179 N92-29334	##########	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0762TR AFOSR-91-0911TR AFOSR-91-0911TR	p 2 p 16 p 14 p 15 p 16 p 84 p 51 p 108 p 128	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17554	.###########	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1344 AIAA PAPER 92-1345	p 256 p 282 p 282 p 282 p 282 p 256 p 256 p 256 p 268	A92-38476 * # A92-38491 # A92-38501 * # A92-38502 * # A92-38517 * # A92-38518 * # A92-38519 * # A92-38520 * #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223 AD-A250233 AD-A250246 AD-A250275	p 386 p 402 p 338 p 338 p 356 p 356 p 356 p 356 p 357 p 357 p 357	N92-31778 N92-31779 N92-31465 N92-28920 N92-29144 N92-29119 N92-29179 N92-29334 N92-31758	###########	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0784TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0915TR	p 2 p 16 p 14 p 15 p 16 p 84 p 51 p 108 p 128 p 127	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17554 N92-17336	############	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1345 AIAA PAPER 92-1346	p 256 p 282 p 282 p 282 p 282 p 256 p 256 p 256 p 268 p 256	A92-38476 ° # A92-38491 # A92-38501 ° # A92-38502 ° # A92-38517 ° # A92-38518 ° # A92-38520 ° # A92-38520 ° #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223 AD-A250223 AD-A250233 AD-A250246 AD-A250275 AD-A250288	p 386 p 402 p 385 p 338 p 356 p 356 p 356 p 356 p 367 p 370 p 370 p 370 p 370	N92-31778 N92-31479 N92-31455 N92-28920 N92-29144 N92-29119 N92-29179 N92-29334 N92-31758 N92-29121	###########	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0764TR AFOSR-91-0784TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0915TR	p 2 p 16 p 14 p 15 p 16 p 84 p 51 p 108 p 128 p 127 p 175	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17554 N92-17336 N92-19064	#############	AIAA PAPER 92-1394 AIAA PAPER 92-1311 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1346 AIAA PAPER 92-1347	p 256 p 282 p 282 p 282 p 282 p 256 p 256 p 256 p 256 p 256 p 256	A92-38476 ° # A92-38491	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223 AD-A250233 AD-A250246 AD-A250248 AD-A250308	p 386 p 402 p 385 p 336 p 356 p 356 p 356 p 356 p 357 p 358	N92-31778 N92-31779 N92-31465 N92-28920 N92-29144 N92-29146 N92-29119 N92-29179 N92-29334 N92-31758 N92-29121 N92-29123	############	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0784TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR	p 2 p 16 p 14 p 15 p 16 p 84 p 51 p 108 p 128 p 127 p 175 p 176	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17336 N92-17336 N92-19083	############	AIAA PAPER 92-1294 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1370	p 256 p 282 p 282 p 282 p 282 p 256 p 256 p 256 p 268 p 256 p 257 p 268	A92-38476 ° # A92-38501 ° # A92-38502 ° # A92-38503 # A92-38518 ° # A92-38519 ° # A92-38520 ° # A92-38520 ° # A92-38521 # A92-38521 # A92-38521 #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223 AD-A250234 AD-A250246 AD-A250275 AD-A250288 AD-A250308 AD-A250348	p 386 p 402 p 338 p 338 p 356 p 356 p 356 p 357	N92-91778 N92-91779 N92-91465 N92-28920 N92-29144 N92-29119 N92-29119 N92-29179 N92-2934 N92-9121 N92-29121 N92-29123 N92-31558	############	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0764TR AFOSR-91-0784TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0915TR	p 2 p 16 p 14 p 15 p 16 p 84 p 51 p 108 p 128 p 127 p 175 p 176	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17336 N92-17336 N92-19083	#############	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1370 AIAA PAPER 92-1451	p 256 p 282 p 282 p 282 p 282 p 256 p 256 p 256 p 256 p 256 p 256 p 257 p 268 p 283	A92-38476 ° # A92-38501 ° # A92-38502 ° # A92-38503 ° # A92-38517 ° # A92-38518 ° # A92-38520 ° #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223 AD-A250233 AD-A250246 AD-A250275 AD-A250288 AD-A250308 AD-A250308 AD-A250348 AD-A250401	p 386 p 402 p 385 p 336 p 336 p 356 p 356 p 356 p 356 p 357 p 357 p 401 p 370 p 336 p 336	N92-91778 N92-91465 N92-28920 N92-29144 N92-29146 N92-29119 N92-29179 N92-29334 N92-91758 N92-29121 N92-29123 N92-91558 N92-91330	###############	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0784TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR	p 2 p 16 p 14 p 15 p 16 p 84 p 51 p 108 p 128 p 127 p 175 p 176 p 175	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17554 N92-17036 N92-19068 N92-19069	#############	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1346 AIAA PAPER 92-1370 AIAA PAPER 92-1370 AIAA PAPER 92-1451 AIAA PAPER 92-1451 AIAA PAPER 92-1452	P 256 P 282 P 282 P 282 P 282 P 286 P 256 P 256 P 256 P 256 P 257 P 268 P 283 P 283	A92-38476 ° # A92-38491 # A92-38501 ° # A92-38503 # A92-38518 ° # A92-38519 ° # A92-38520 # A92-38520 # A92-38520 # A92-38536 ° # A92-38579 # A92-38580 ° #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223 AD-A250233 AD-A250246 AD-A250275 AD-A250288 AD-A250308 AD-A250308 AD-A250348 AD-A250401	p 386 p 402 p 338 p 338 p 356 p 356 p 356 p 357	N92-91778 N92-91465 N92-28920 N92-29144 N92-29146 N92-29119 N92-29179 N92-29334 N92-91758 N92-29121 N92-29123 N92-91558 N92-91330	############	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0759TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0764TR AFOSR-91-0911TR AFOSR-91-0911TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0939TR AFOSR-91-0939TR AFOSR-91-0939TR	P 2 P 16 P 14 P 15 P 16 P 84 P 51 P 108 P 128 P 127 P 175 P 176 P 175	N92-11633 N92-10286 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17554 N92-17336 N92-19064 N92-19069 N92-19069 N92-19365	***************************************	AIAA PAPER 92-1294 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1370 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1452	P 256 P 282 P 282 P 282 P 285 P 256 P 257 P 268 P 283 P 283 P 283	A92-38476 ° # A92-38501 ° # A92-38502 ° # A92-38503 ° # A92-38517 ° # A92-38518 ° # A92-38520 ° #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223 AD-A250233 AD-A250246 AD-A250288 AD-A250308 AD-A250308 AD-A250348 AD-A250401	p 386 p 402 p 385 p 336 p 336 p 356 p 356 p 356 p 356 p 357 p 357 p 401 p 370 p 336 p 336	N92-91778 N92-91465 N92-28920 N92-29144 N92-29146 N92-29119 N92-29179 N92-29334 N92-91758 N92-29121 N92-29123 N92-91558 N92-91330	###############	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0757TR AFOSR-91-0762TR AFOSR-91-0764TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-093	P 2 P 16 P 14 P 15 P 16 P 84 P 51 P 108 P 127 P 175 P 176 P 175 P 176 P 176	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17742 N92-17336 N92-19064 N92-19083 N92-19083 N92-19085 N92-19504	***************************************	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1346 AIAA PAPER 92-1370 AIAA PAPER 92-1370 AIAA PAPER 92-1451 AIAA PAPER 92-1451 AIAA PAPER 92-1452	P 256 P 282 P 282 P 282 P 285 P 256 P 257 P 268 P 283 P 283 P 283	A92-38476	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223 AD-A250233 AD-A250246 AD-A250275 AD-A250308 AD-A250308 AD-A250340 AD-A250401 AD-A250442	p 386 p 402 p 385 p 338 p 356 p 356 p 356 p 356 p 356 p 357 p 367 p 367 p 401 p 370 p 388 p 388 p 389 p 396 p 397 p 398	N92-91778 N92-91475 N92-91465 N92-28920 N92-29144 N92-29119 N92-29179 N92-29334 N92-31758 N92-29121 N92-29123 N92-31530 N92-311330 N92-31143	*#####################################	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0759TR AFOSR-91-0755TR AFOSR-91-0762TR AFOSR-91-0762TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0939TR AFOSR-91-0939TR AFOSR-91-0939TR AFOSR-91-0939TR AFOSR-91-0939TR AFOSR-91-0939TR AFOSR-91-0939TR AFOSR-91-0960TR	P 2 P 16 P 14 P 15 P 16 P 84 P 51 P 108 P 127 P 175 P 176 P 175 P 176 P 176 P 170 P 170 P 193	N92-11633 N92-10284 N92-10286 N92-11634 N92-115539 N92-13587 N92-17554 N92-17336 N92-19064 N92-19068 N92-19083 N92-19089 N92-19385 N92-19385 N92-19385	###################	AIAA PAPER 92-1294 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1370 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1452	P 256 P 282 P 282 P 282 P 285 P 256 P 256 P 256 P 256 P 256 P 256 P 257 P 268 P 283 P 283 P 283	A92-38476 ° # A92-38501 ° # A92-38502 ° # A92-38503 # A92-38518 ° # A92-38519 ° # A92-38520 ° # A92-38520 ° # A92-38526 ° # A92-38579 ° # A92-38580 ° # A92-38580 ° # A92-38580 ° #	
AD-A250069 AD-A250173 AD-A250203 AD-A250203 AD-A250223 AD-A250246 AD-A250246 AD-A250288 AD-A250308 AD-A250348 AD-A250348 AD-A250401 AD-A250442 AD-A250579 AD-A250580	p 386 p 402 p 338 p 338 p 356 p 356 p 356 p 357 p 357 p 357 p 357 p 401 p 377 p 338 p 398 p 398 p 398	N92-31778 N92-31779 N92-31465 N92-28920 N92-29146 N92-29119 N92-29179 N92-29334 N92-31758 N92-31558 N92-31558 N92-31143 N92-31143 N92-31143 N92-29591 N92-29591	*#####################################	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0764TR AFOSR-91-0784TR AFOSR-91-0911TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0930TR AFOSR-91-0970TR AFOSR-91-0970TR AFOSR-91-0970TR AFOSR-91-0970TR AFOSR-91-0964TR AFOSR-91-0964TR AFOSR-91-1006TR AFOSR-91-1006TR	P 2 P 16 P 14 P 15 P 16 P 84 P 51 P 108 P 127 P 175 P 176 P 176 P 176 P 176 P 170 P 193 P 194	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17336 N92-19064 N92-19069 N92-19069 N92-19365 N92-1950 N92-17504 N92-20713 N92-21384	################	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1370 AIAA PAPER 92-1451 AIAA PAPER 92-1451 AIAA PAPER 92-1453 AIAA PAPER 92-1453 AIAA PAPER 92-1522	P 256 P 282 P 282 P 282 P 282 P 286 P 256 P 256 P 256 P 257 P 268 P 283 P 283 P 283 P 283	A92-38476 ° # A92-38501 ° # A92-38502 ° # A92-38503 ° # A92-38517 ° # A92-38518 ° # A92-38521 # A92-38520 ° #	
AD-A250069 AD-A250173 AD-A250203 AD-A250203 AD-A250223 AD-A250246 AD-A250246 AD-A250288 AD-A250308 AD-A250348 AD-A250348 AD-A250401 AD-A250442 AD-A250579 AD-A250580	p 386 p 402 p 338 p 338 p 356 p 356 p 356 p 356 p 357 p 357 p 401 p 377 p 367 p 368 p 368 p 378	N92-91778 N92-914765 N92-28920 N92-29144 N92-29149 N92-29119 N92-29179 N92-29334 N92-91758 N92-9121 N92-29123 N92-31558 N92-31330 N92-31143 N92-29592 N92-30376	*#####################################	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0762TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0964TR AFOSR-91-0964TR AFOSR-91-0964TR AFOSR-91-1006TR AFOSR-91-1007TR AFOSR-91-1007TR	P 2 P 16 P 14 P 15 P 16 P 84 P 51 P 108 P 127 P 175 P 176 P 176 P 176 P 176 P 110 P 193 P 194 P 179	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17336 N92-19064 N92-19083 N92-19083 N92-19085 N92-19385 N92-1954 N92-20713 N92-21384 N92-18816	*****************	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1346 AIAA PAPER 92-1370 AIAA PAPER 92-1451 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1452 AIAA PAPER 92-1522 AIAA PAPER 92-1522 AIAA PAPER 92-1522 AIAA PAPER 92-1522	P 256 P 282 P 282 P 282 P 282 P 282 P 256 P 256 P 256 P 256 P 257 P 268 P 283 P 283 P 283 P 283 P 283	A92-38476 ° # A92-38501 ° # A92-38501 ° # A92-38517 ° # A92-38518 ° # A92-38519 ° # A92-38520 ° # A92-38520 ° # A92-38520 ° # A92-38536 ° # A92-38579 ° # A92-38580 ° #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250223 AD-A250246 AD-A250275 AD-A250308 AD-A250308 AD-A250401 AD-A250401 AD-A250579 AD-A250580 AD-A250580 AD-A250580 AD-A250580	p 386 p 402 p 388 p 388 p 388 p 356 p 356 p 356 p 367 p 370 p 370 p 370 p 398 p 398 p 398 p 398	N92-91778 N92-914765 N92-28920 N92-29144 N92-29149 N92-29119 N92-29179 N92-29334 N92-91758 N92-9121 N92-29123 N92-31558 N92-31330 N92-31143 N92-29592 N92-30376	并并并并并并并并并并并并并并	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0911TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0947TR AFOSR-91-0970TR AFOSR-91-0970TR AFOSR-91-0970TR AFOSR-91-0970TR AFOSR-91-0970TR AFOSR-91-0970TR AFOSR-91-0970TR AFOSR-91-0970TR AFOSR-91-0970TR AFOSR-91-10070TR AFOSR-91-10070TR AFOSR-91-10070TR AFOSR-91-1013TR AFOSR-91-1013TR	P 2 P 16 P 14 P 15 P 16 P 84 P 51 P 108 P 127 P 175 P 176 P 175 P 176 P 110 P 193 P 194 P 179 P 168	N92-11633 N92-10284 N92-10286 N92-11634 N92-115539 N92-13587 N92-17554 N92-17356 N92-19064 N92-19063 N92-19083 N92-19089 N92-19385 N92-19385 N92-17504 N92-21734 N92-21384 N92-18859	*********************	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1452 AIAA PAPER 92-1453 AIAA PAPER 92-1523	P 256 P 282 P 282 P 282 P 286 P 256 P 256 P 256 P 257 P 268 P 283	A92-38476 ° # A92-38491 # A92-38501 ° # A92-38503 # A92-38518 ° # A92-38519 ° # A92-38520 # A92-38520 # A92-38520 # A92-38536 ° # A92-38580 ° # A92-38580 ° # A92-38680 # A92-38623 # A92-38623 # A92-38623 # A92-38623 #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250233 AD-A250246 AD-A250246 AD-A250288 AD-A250308 AD-A250308 AD-A250401 AD-A250579 AD-A250579 AD-A250580 AD-A250640 AD-A250640 AD-A250650	p 386 p 402 p 338 p 338 p 356 p 356 p 356 p 357 p 358	N92-31778 N92-31479 N92-31465 N92-28920 N92-29146 N92-29119 N92-29179 N92-29334 N92-31758 N92-29121 N92-29123 N92-31558 N92-31558 N92-31143 N92-31143 N92-31143 N92-30376 N92-30376 N92-30376 N92-30603	并并并并并并并并并并并并并并并并并	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0764TR AFOSR-91-0911TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0930TR AFOSR-91-0970TR AFOSR-91-10970TR AFOSR-91-10970TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1007TR AFOSR-91-1013TR AFOSR-91-1022TR AFOSR-91-1022TR	P 2 P 16 P 14 P 15 P 16 P 84 P 51 P 108 P 128 P 128 P 175 P 176 P 176 P 176 P 179 P 179 P 179 P 168 P 176	N92-11633 N92-10284 N92-10286 N92-11634 N92-11539 N92-13587 N92-17142 N92-17336 N92-19064 N92-19069 N92-19069 N92-19365 N92-17504 N92-20713 N92-21384 N92-18816 N92-18859 N92-19799	. 并并并并并并并并并并并并并并并并并并并	AIAA PAPER 92-1294 AIAA PAPER 92-1313 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1370 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1452 AIAA PAPER 92-1453 AIAA PAPER 92-1522 AIAA PAPER 92-1522 AIAA PAPER 92-1527 AIAA PAPER 92-1527 AIAA PAPER 92-1527	P 256 P 282 P 282 P 282 P 282 P 256 P 256 P 256 P 256 P 257 P 268 P 283	A92-38476 ° # A92-38501 ° # A92-38501 ° # A92-38502 ° # A92-38517 ° # A92-38518 ° # A92-38521 # A92-38520 ° # A92-38526 ° # A92-38530 ° # A92-38580 ° # A92-38630 ° # A92-38630 ° #	
AD-A250069 AD-A250173 AD-A250200 AD-A250203 AD-A250233 AD-A250246 AD-A250246 AD-A250288 AD-A250308 AD-A250308 AD-A250401 AD-A250579 AD-A250579 AD-A250580 AD-A250640 AD-A250640 AD-A250650	p 386 p 402 p 338 p 338 p 338 p 356 p 356 p 356 p 357 p 401 p 377 p 398	N92-31778 N92-31479 N92-31465 N92-28920 N92-29146 N92-29119 N92-29179 N92-29334 N92-31758 N92-29121 N92-29123 N92-31558 N92-31558 N92-31143 N92-31143 N92-31143 N92-30376 N92-30376 N92-30376 N92-30603	并并并并并并并并并并并并并并并并	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0762TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-1030TR	P 2 P 16 P 14 P 15 P 16 P 84 P 51 P 128 P 127 P 175 P 176 P 175 P 176 P 179 P 193 P 194 P 178 P	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17336 N92-19064 N92-19083 N92-19089 N92-19365 N92-19504 N92-20713 N92-1384 N92-18816 N92-18859 N92-18859 N92-18859 N92-19399 N92-20895	. 并并并并并并并并并并并并并并并并并并并并	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1370 AIAA PAPER 92-1451 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1452 AIAA PAPER 92-1522 AIAA PAPER 92-1522 AIAA PAPER 92-1523 AIAA PAPER 92-1521 AIAA PAPER 92-1521 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1531	P 256 P 282 P 282 P 282 P 282 P 256 P 256 P 256 P 256 P 257 P 268 P 283 P 283 P 283 P 283 P 277 P 278	A92-38476 ° # A92-38501 ° # A92-38501 ° # A92-38503 ° # A92-38517 ° # A92-38518 ° # A92-38520 ° # A92-38520 ° # A92-38536 ° # A92-38579 ° # A92-38580 ° # A92-38580 ° # A92-38580 ° # A92-38682 ° # A92-38620 ° # A92-38620 ° # A92-38621 ° #	
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AD-A250069 AD-A250173 AD-A250203 AD-A250223 AD-A250233 AD-A250246 AD-A250246 AD-A250308 AD-A250308 AD-A250348 AD-A250441 AD-A250540 AD-A250580 AD-A250640 AD-A250640 AD-A250650 AD-A250651 AD-A250651 AD-A250651 AD-A250651 AD-A250651 AD-A250650 AD-A250650	p 386 p 402 p 338 p 338 p 338 p 356 p 356 p 357 p 358	N92-31778 N92-31465 N92-28920 N92-29146 N92-29119 N92-29179 N92-29334 N92-31758 N92-29121 N92-29123 N92-31558 N92-31558 N92-31558 N92-31558 N92-31558 N92-31558 N92-3156 N92-30576 N92-30376 N92-30376 N92-30603 N92-30603 N92-30603 N92-30603 N92-30603 N92-31321 N92-32023	并并并并并并并并并并并并并并并并并并并	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0768TR AFOSR-91-0768TR AFOSR-91-0911TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0970TR AFOSR-91-10970TR AFOSR-91-10970TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1007TR AFOSR-91-1006TR	P 2 P 16 P 14 P 15 P 16 P 84 P 51 P 128 P 127 P 175 P 175 P 176 P 176 P 193 P 179 P 168 P 176 P 188 P 176 P 188 P	N92-11633 N92-10284 N92-10286 N92-11634 N92-11539 N92-13587 N92-17142 N92-17554 N92-19069 N92-19069 N92-19069 N92-19365 N92-17504 N92-20713 N92-18816 N92-18816 N92-18816 N92-1897 N92-19799 N92-20895 N92-19890 N92-20895 N92-19890 N92-28176	. 并并并并并并并并并并并并并并并并并并并并并并	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1343 AIAA PAPER 92-1345 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1452 AIAA PAPER 92-1523 AIAA PAPER 92-1523 AIAA PAPER 92-1523 AIAA PAPER 92-1531 AIAA PAPER 92-1532 AIAA PAPER 92-1532 AIAA PAPER 92-1532 AIAA PAPER 92-1532 AIAA PAPER 92-1573 AIAA PAPER 92-1573 AIAA PAPER 92-1573 AIAA PAPER 92-1575	P 256 P 282 P 282 P 282 P 282 P 256 P 256 P 256 P 256 P 256 P 258 P 283 P 284 P 284	A92-38476 ° # A92-38501 ° # A92-38501 ° # A92-38502 ° # A92-38517 ° # A92-38518 ° # A92-38520 ° # A92-38520 ° # A92-38520 ° # A92-38536 ° # A92-38580 ° # A92-38580 ° # A92-38660 ° # A92-38666 ° # A92-38666 ° #	
AD-A250069 AD-A250200 AD-A250203 AD-A250223 AD-A250223 AD-A250246 AD-A250275 AD-A250348 AD-A250348 AD-A250401 AD-A250540 AD-A250540 AD-A250640 AD-A250640 AD-A250661 AD-A2506651 AD-A2506651 AD-A250669 AD-A2506719 AD-A250719 AD-A250719	p 386 p 402 p 338 p 338 p 338 p 356 p 356 p 356 p 357 p 367 p 370 p 370 p 370 p 388 p 398 p 399 p 399 p 399 p 399 p 399 p 400 p 370 p 387 p 387 p 398 p 398 p 398 p 398 p 398 p 398 p 399 p 399	N92-31778 N92-31779 N92-31465 N92-28920 N92-29146 N92-29119 N92-29179 N92-29334 N92-31758 N92-31558 N92-31558 N92-31558 N92-31558 N92-31559 N92-31540 N92-30591 N92-30591 N92-30591 N92-30603 N92-30603 N92-30603 N92-30621	并并并并并并并并并并并并并并并并并并并并并	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0762TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0968TR AFOSR-91-10968TR AFOSR-91-1005TR AFOSR-91-1007TR AFOSR-92-0075TR	P 2 P 16 P 14 P 15 P 16 P 84 P 51 P 108 P 127 P 175 P 175 P 176 P 179 P	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17336 N92-19064 N92-19069 N92-19069 N92-19365 N92-17504 N92-12384 N92-18859 N92-18859 N92-18859 N92-1989 N92-1989 N92-1989 N92-1989 N92-1989	. 并并并并并并并并并并并并并并并并并并并并并并并并	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1343 AIAA PAPER 92-1345 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1452 AIAA PAPER 92-1523 AIAA PAPER 92-1523 AIAA PAPER 92-1523 AIAA PAPER 92-1531 AIAA PAPER 92-1532 AIAA PAPER 92-1532 AIAA PAPER 92-1532 AIAA PAPER 92-1532 AIAA PAPER 92-1573 AIAA PAPER 92-1573 AIAA PAPER 92-1573 AIAA PAPER 92-1575	P 256 P 282 P 282 P 282 P 282 P 256 P 256 P 256 P 256 P 256 P 258 P 283 P 284 P 284	A92-38476 ° # A92-38501 ° # A92-38502 ° # A92-38517 ° # A92-38518 ° # A92-38520 ° # A92-38520 ° # A92-38520 ° # A92-38530 ° # A92-38530 ° # A92-38530 ° # A92-38531 # A92-38662 ° # A92-38663 ° # A92-38663 ° # A92-38663 ° # A92-38663 ° # A92-38668 ° # A92-38668 ° #	
AD-A250069 AD-A250203 AD-A250223 AD-A250233 AD-A250246 AD-A250275 AD-A250288 AD-A250308 AD-A250308 AD-A250308 AD-A250401 AD-A250442 AD-A250579 AD-A250650 AD-A250669 AD-A250669 AD-A250719 AD-A250741 AD-A250748	p 386 p 402 p 338 p 338 p 338 p 356 p 356 p 356 p 357 p 401 p 377 p 398	N92-31778 N92-31465 N92-28920 N92-29146 N92-29119 N92-29179 N92-29334 N92-31758 N92-29123 N92-31558 N92-31330 N92-31143 N92-29591 N92-29591 N92-30604 N92-31231 N92-30644 N92-31221 N92-32023 N92-31229 N92-320640	并并并并并并并并并并并并并并并并并并并并并并	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0911TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0937TR AFOSR-91-1023TR AFOSR-91-1023TR AFOSR-91-1023TR AFOSR-91-1023TR AFOSR-91-1030TR AFOSR-91-1030TR AFOSR-91-030TR AFOSR-92-0004TR AFOSR-92-0004TR AFOSR-92-0096TR AFOSR-92-00103TR	P 2 P 16 P 14 P 51 P 16 P 84 P 51 P 108 P 128 P 127 P 175 P 176 P 176 P 179 P 178 P 179 P 183 P 193 P 193 P 193 P 193 P 193 P 193 P 193 P 193 P 193 P 194 P 195 P 195 P 195 P 195 P 195 P 195 P 196 P 196 P 197 P	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17336 N92-19064 N92-19083 N92-19083 N92-19089 N92-19365 N92-1384 N92-18816 N92-18859 N92-19799 N92-19895 N92-19799 N92-19895 N92-19799 N92-20895 N92-28176 N92-28176 N92-28176 N92-28176 N92-28176 N92-28176 N92-28176 N92-28176 N92-27337	. 并并并并并并并并并并并并并并并并并并并并并并并并	AIAA PAPER 92-1294 AIAA PAPER 92-1313 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1452 AIAA PAPER 92-1523 AIAA PAPER 92-1523 AIAA PAPER 92-1523 AIAA PAPER 92-1527 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1532 AIAA PAPER 92-1533 AIAA PAPER 92-1534 AIAA PAPER 92-1573 AIAA PAPER 92-1573 AIAA PAPER 92-1574 AIAA PAPER 92-1578	P 256 P 282 P 282 P 282 P 286 P 256 P 256 P 256 P 256 P 258 P 258 P 258 P 283 P 283 P 283 P 283 P 283 P 283 P 284 P 284 P 284 P 284	A92-38476 ° # A92-38501 ° # A92-38501 ° # A92-38502 ° # A92-38517 ° # A92-38518 ° # A92-38520 ° # A92-38520 ° # A92-38520 ° # A92-38536 ° # A92-38560 ° # A92-38600 ° # A92-38660 ° # A92-38666 ° # A92-38667 ° # A92-38669 ° # A92-38669 ° # A92-38669 ° #	
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AD-A250069 AD-A250200 AD-A250203 AD-A250223 AD-A250223 AD-A250246 AD-A250275 AD-A250348 AD-A250348 AD-A250340 AD-A250579 AD-A250650 AD-A250650 AD-A250651 AD-A250651 AD-A250651 AD-A250786 AD-A250786 AD-A250780 AD-A250786 AD-A250786 AD-A250786 AD-A250786 AD-A250786 AD-A250786 AD-A250786	p 386 p 402 p 338 p 338 p 338 p 356 p 356 p 356 p 357 p 357 p 401 p 370 p 388 p 398 p 399 p 409 p 399 p 399 p 399 p 399 p 390 p 400 p 370	N92-31778 N92-31465 N92-28920 N92-29146 N92-29149 N92-29179 N92-29334 N92-31758 N92-29121 N92-29129 N92-31558 N92-31568 N92-31569 N92-30216 N92-30216 N92-30216 N92-30216 N92-30218 N92-31321 N92-31321 N92-31321 N92-31321 N92-31321 N92-31321 N92-32600 N92-32604 N92-32604 N92-32504 N92-32504	并并并并并并并并并并并并并并并并并并并并并并并并	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0762TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0938TR AFOSR-91-0984TR AFOSR-91-1096TR AFOSR-91-1005TR AFOSR-91-1005TR AFOSR-91-1005TR AFOSR-91-1005TR AFOSR-91-1005TR AFOSR-91-1005TR AFOSR-91-1005TR AFOSR-91-10205TR AFOSR-91-10205TR AFOSR-91-10205TR AFOSR-91-1030TR AFOSR-91-1030TR AFOSR-91-1030TR AFOSR-91-1030TR AFOSR-92-0005TR AFOSR-92-0095TR AFOSR-92-0005TR AFOSR-92-0105TR AFOSR-92-0105TR	P 2 P 16 P 14 P 15 P 16 P 84 P 108 P 128 P 127 P 176 P 175 P 176 P 176 P 179 P	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17336 N92-19069 N92-19089 N92-19089 N92-19089 N92-19385 N92-1969 N92-18859 N92-18859 N92-18859 N92-18859 N92-1986 N92-18859 N92-1986 N92-19886 N92-19886 N92-19886	***************************************	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1522 AIAA PAPER 92-1523 AIAA PAPER 92-1523 AIAA PAPER 92-1523 AIAA PAPER 92-1523 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1532 AIAA PAPER 92-1573 AIAA PAPER 92-1575 AIAA PAPER 92-1575 AIAA PAPER 92-1578 AIAA PAPER 92-1606	P 256 P 282 P 282 P 282 P 282 P 256 P 256 P 256 P 256 P 257 P 268 P 283 P 283 P 283 P 283 P 283 P 283 P 284 P 284 P 284 P 284 P 284 P 284 P 284 P 284	A92-38476	
AD-A250069 AD-A250203 AD-A250223 AD-A250233 AD-A250246 AD-A250275 AD-A250275 AD-A250308 AD-A250308 AD-A250308 AD-A250401 AD-A250402 AD-A250579 AD-A250640 AD-A250640 AD-A250651 AD-A250651 AD-A250651 AD-A250651 AD-A250651 AD-A250719 AD-A250739 AD-A250739 AD-A250739 AD-A250786 AD-A250786 AD-A250786 AD-A250786 AD-A250786 AD-A2507873 AD-A250868	p 386 p 402 p 338 p 338 p 338 p 356 p 356 p 356 p 357 p 401 p 377 p 401 p 378 p 398	N92-31778 N92-31465 N92-28920 N92-29146 N92-29119 N92-29179 N92-29334 N92-31758 N92-29123 N92-31558 N92-31330 N92-31143 N92-29591 N92-30503 N92-30604 N92-30212 N92-30604 N92-31291 N92-32600 N92-32504 N92-32504 N92-32504	并并并并并并并并并并并并并并并并并并并并并并并并并	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0764TR AFOSR-91-0911TR AFOSR-91-0911TR AFOSR-91-0913TR AFOSR-91-0937TR AFOSR-91-1023TR AFOSR-91-1023TR AFOSR-91-1023TR AFOSR-91-1023TR AFOSR-91-1030TR AFOSR-91-030TR AFOSR-91-030TR AFOSR-91-030TR AFOSR-92-005TR AFOSR-92-005TR AFOSR-92-005TR AFOSR-92-0103TR AFOSR-92-0103TR AFOSR-92-0103TR AFOSR-92-0103TR AFOSR-92-0103TR AFOSR-92-0103TR AFOSR-92-0103TR	P 2 P 16 P 14 P 15 P 16 P 18 P 108 P 128 P 127 P 175 P 176 P 177 P 179 P 179 P 179 P 168 P 191 P 193 P	N92-11633 N92-10284 N92-10286 N92-11634 N92-15539 N92-13587 N92-17142 N92-17336 N92-19064 N92-19083 N92-19083 N92-19083 N92-19365 N92-1384 N92-1384 N92-18859 N92-19899 N92-19879 N92-19879 N92-19879 N92-20713 N92-20713 N92-20713 N92-20713 N92-20713 N92-20713 N92-20713 N92-20713 N92-20713 N92-20713 N92-20713 N92-20713 N92-20895 N92-31980 N92-2937 N92-28866 N92-29186 N92-29186 N92-29186 N92-30613	***************************************	AIAA PAPER 92-1394 AIAA PAPER 92-1311 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1345 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1452 AIAA PAPER 92-1452 AIAA PAPER 92-1523 AIAA PAPER 92-1523 AIAA PAPER 92-1527 AIAA PAPER 92-1527 AIAA PAPER 92-1527 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1573 AIAA PAPER 92-1573 AIAA PAPER 92-1573 AIAA PAPER 92-1575 AIAA PAPER 92-1578 AIAA PAPER 92-1606 AIAA PAPER 92-1606 AIAA PAPER 92-1606 AIAA PAPER 92-1608	P 256 P 282 P 282 P 282 P 282 P 282 P 286 P 256 P 256 P 256 P 256 P 256 P 257 P 268 P 283 P 283 P 283 P 283 P 283 P 283 P 284 P 284 P 284 P 284 P 284	A92-38476 ° # A92-38501 ° # A92-38502 ° # A92-38517 ° # A92-38518 ° # A92-38520 ° # A92-38520 ° # A92-38520 ° # A92-38520 ° # A92-38580 ° # A92-38581 ° # A92-38581 ° # A92-38581 ° # A92-38581 ° # A92-38660 ° # A92-38660 ° # A92-38660 ° # A92-38666 ° # A92-38668 # A92-38668 # A92-38668 # A92-38668 # A92-38668 #	
AD-A250069 AD-A250203 AD-A250223 AD-A250233 AD-A250234 AD-A250246 AD-A250246 AD-A250308 AD-A250308 AD-A250308 AD-A250401 AD-A250401 AD-A250442 AD-A250401 AD-A250640 AD-A250640 AD-A250650 AD-A250650 AD-A250651 AD-A250719 AD-A250719 AD-A250719 AD-A250786 AD-A250786 AD-A250786 AD-A2507886 AD-A2507886 AD-A2507886 AD-A2507886 AD-A2508686 AD-A250873 AD-A250881	p 386 p 402 p 338 p 338 p 338 p 356 p 356 p 356 p 357	N92-31778 N92-31465 N92-28920 N92-29146 N92-29119 N92-29179 N92-29121 N92-29121 N92-29121 N92-31558 N92-32551 N92-32551 N92-32551 N92-32551 N92-32504 N92-32504 N92-32504 N92-32344 N92-32344	<i>特书书书书书书书书书书书书书书书书书书书书书书书书</i>	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0762TR AFOSR-91-0764TR AFOSR-91-0911TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-10970TR AFOSR-91-10970TR AFOSR-91-10970TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-92-0004TR AFOSR-92-0004TR AFOSR-92-0105TR AFOSR-92-0105TR AFOSR-92-0105TR AFOSR-92-0105TR AFOSR-92-0105TR AFOSR-92-0105TR AFOSR-92-0105TR AFOSR-92-0105TR	P 2 P 16 P 15 P 16 P 15 P 16 P 17 P 10 P 12 P 12 P 17 P 175 P 175 P 175 P 176 P 176 P 193 P 194 P 198 P 198	N92-11633 N92-10284 N92-10286 N92-11634 N92-11539 N92-13587 N92-17142 N92-17554 N92-19069 N92-19069 N92-19069 N92-19365 N92-19365 N92-17504 N92-21384 N92-18816 N92-18816 N92-1897 N92-1897 N92-20895 N92-19799 N92-20895 N92-19799 N92-20895 N92-19799 N92-20895 N92-19799 N92-20895 N92-19799 N92-20895 N92-19799 N92-20895 N92-19799 N92-20895 N92-28186 N92-28186 N92-29186 N92-29186 N92-29186	.并并并并并并并并并并并并并并并并并并并并并并并并并并并并	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1346 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1370 AIAA PAPER 92-1451 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1452 AIAA PAPER 92-1522 AIAA PAPER 92-1522 AIAA PAPER 92-1522 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1574 AIAA PAPER 92-1575 AIAA PAPER 92-1606 AIAA PAPER 92-1605 AIAA PAPER 92-1606 AIAA PAPER 92-1608	P 256 P 282 P 282 P 282 P 282 P 285 P 256 P 256 P 256 P 257 P 283 P 283 P 283 P 278 P 283 P 278 P 284 P 284	A92-38476 ° # A92-38501 ° # A92-38501 ° # A92-38503 ° # A92-38517 ° # A92-38519 ° # A92-38520 ° # A92-38520 ° # A92-38520 ° # A92-38560 ° # A92-38560 ° # A92-38561 ° # A92-38660 ° #	
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AD-A250069 AD-A250203 AD-A250223 AD-A250233 AD-A250234 AD-A250246 AD-A250275 AD-A250308 AD-A250308 AD-A250308 AD-A250308 AD-A250401 AD-A250412 AD-A250579 AD-A250640 AD-A250640 AD-A250640 AD-A250650 AD-A250741 AD-A250786 AD-A250786 AD-A250881 AD-A250881 AD-A250881 AD-A250881 AD-A250881 AD-A250881 AD-A250881 AD-A250881 AD-A250881 AD-A252176 AD-A252176	p 386 p 402 p 338 p 338 p 338 p 356 p 356 p 356 p 357	N92-31778 N92-31465 N92-28920 N92-29146 N92-29119 N92-29179 N92-29123 N92-31758 N92-29121 N92-29123 N92-31330 N92-31443 N92-39591 N92-30576 N92-30216 N92-30603 N92-30604 N92-30504 N92-31321 N92-32504 N92-32504 N92-32504 N92-32504 N92-32344 N92-32344 N92-32345 N92-32563 N92-30551	<i>特书书书书书书书书书书书书书书书书书书书书书书书书书书书</i>	AFOSR-91-0739TR AFOSR-91-0749TR AFOSR-91-0757TR AFOSR-91-0757TR AFOSR-91-0758TR AFOSR-91-0768TR AFOSR-91-0768TR AFOSR-91-0911TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0915TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-0937TR AFOSR-91-10970TR AFOSR-91-10970TR AFOSR-91-10970TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1006TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-91-1028TR AFOSR-92-0004TR AFOSR-92-0105TR AFOSR-92-0111TR AFOSR-92-0111TR	P 2 P 16 P 17 P 18 P 18 P 19 P 19 P 19 P 12 P 17 P 17 P 17 P 17 P 17 P 17 P 17 P 17	N92-11633 N92-10284 N92-10286 N92-11634 N92-11539 N92-13587 N92-17142 N92-17536 N92-19069 N92-19069 N92-19069 N92-19365 N92-19365 N92-18365 N92-18816 N92-18816 N92-18816 N92-1897 N92-20895 N92-1897 N92-20895 N92-18980 N92-28176 N92-28186 N92-28186 N92-28186 N92-28186 N92-28186 N92-28186 N92-28186 N92-28186 N92-28186 N92-28186 N92-28189 N92-27844 N92-27844 N92-27844 N92-27844	.并非并非并并并并并并并并并并并并并并并并并并并并并并并并并并并	AIAA PAPER 92-1294 AIAA PAPER 92-1311 AIAA PAPER 92-1316 AIAA PAPER 92-1316 AIAA PAPER 92-1342 AIAA PAPER 92-1343 AIAA PAPER 92-1343 AIAA PAPER 92-1344 AIAA PAPER 92-1346 AIAA PAPER 92-1346 AIAA PAPER 92-1346 AIAA PAPER 92-1347 AIAA PAPER 92-1347 AIAA PAPER 92-1451 AIAA PAPER 92-1451 AIAA PAPER 92-1452 AIAA PAPER 92-1452 AIAA PAPER 92-1522 AIAA PAPER 92-1522 AIAA PAPER 92-1523 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1531 AIAA PAPER 92-1574 AIAA PAPER 92-1574 AIAA PAPER 92-1574 AIAA PAPER 92-1575 AIAA PAPER 92-1604 AIAA PAPER 92-1605 AIAA PAPER 92-1608 AIAA PAPER 92-1608 AIAA PAPER 92-1608 AIAA PAPER 92-1608 AIAA PAPER 92-1604 AIAA PAPER 92-1604 AIAA PAPER 92-1605 AIAA PAPER 92-1606 AIAA PAPER 92-1606 AIAA PAPER 92-1605 AIAA PAPER 92-1606 AIAA PAPER 92-1605 AIAA PAPER 92-1605 AIAA PAPER 92-1604 AIAA PAPER 92-1605 AIAA PAPER 92-1604 AIAA PAPER 92-1607 AIAA PAPER 92-1627 AIAA PAPER 92-1634	P 256 P 282 P 282 P 282 P 282 P 282 P 282 P 286 P 256 P 256 P 256 P 256 P 257 P 283 P 283 P 283 P 278 P 278 P 278 P 278 P 284 P 288 P 278	A92-38476 ° # A92-38501 ° # A92-38502 ° # A92-38503 ° # A92-38517 ° # A92-38519 ° # A92-38520 ° # A92-38520 ° # A92-38520 ° # A92-38520 ° # A92-38560 ° # A92-38561 ° # A92-38561 ° # A92-38561 ° # A92-38660 ° # A92-38600 ° #	
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AIAA PAPER 92-4167 p			#	CERB-91-07	p 184	N92-19926	#	DE91-641477			#
					F		"	DE91-641478			π #
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				CEMMA-90-44(LCBA)	p 43	1432-12414	77	DE91-642163			#
AIAA R-023-1992 p	246	A92-36399		000 (00 10 (01				DE91-780319			#
				CGR/DC-19/91	p 371	N92-29538	#	DE92-000132			#
AL-CR-1992-001 p	358	N92-29620	#					DE92-000355	. р 37	N92-12410 #	#
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AL-TP-1991-0017-VOL-4 p		N92-20694	#	CIRRPC-8	n 172	N92-19273	#	DE92-000642			#
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AL-TP-1991-0018 p		N92-11636	#	01411 415 4 40	- 407	NOO 47450	м	DE92-000667			#
AL-TP-1991-0022p		N92-11630	#	CMU-AIP-148	p 127	N92-17458	#	DE92-000786			#
AL-TP-1991-0032 p	16	N92-11635	#					DE92-000852	. р72	N92-14583 #	#
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				CONF-9003295			#				
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				CONF-9011228			#	DE92-003024			#
AL-TR-1991-0004 p		N92-17288	#	CONF-9104107-1		N92-14583	#	DE92-003218			#
AL-TR-1991-0010p	83	N92-14590	#	CONF-9104298-1		N92-12409	#	DE92-003370	. р 109	N92-17471 #	#
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				CONF-9107136-11		N92-31608	#	DE92-003766			π #
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AL-TR-1991-0067 p		N92-15529	".					DE92-004014			#
AL-TR-1991-0069 p	73	N92-15528	#	CONF-9108176-1		N92-15543	#	DE92-004065			#
AL-TR-1991-0073 p	39	N92-13573	#	CONF-9109107-5		N92-28278	#	DE92-004101	. p 160	N92-18887 #	#
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AL-TR-1991-0079p		N92-26528	#	CONF-911011-1	p 37	N92-12410	#	DE92-004424			#
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				CONF-9110146-7		N92-25481	#				
AL-TR-1991-0096 p		N92-19829	#					DE92-004749			#
AL-TR-1991-0104 p		N92-32492	#	CONF-9110280-1		N92-16546	#	DE92-004750			#
AL-TR-1991-0109 p	401	N92-31321	#	CONF-911032-4	p 120	N92-16550	#	DE92-004770	. p 124	N92-17800 #	#
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				CONF-9111177-1		N92-20987	#				
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AL-TR-1992-0003 p		N92-29503	#	CONF-911264-1		N92-17471	#	DE92-005469			#
AL-TR-1992-0005 p	394	N92-30605	#	CONF-920124-11		N92-25993	#	DE92-005520	. p 275	N92-25422 #	#
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712 111 1002 0002 mmmmm p			"	CONF-920436-3	D 211	N92-20046	#	DE92-005588			#
AMSEL-NV-TR-0080	104	NI02 10447	#	CONF-920473-1		N92-26494	#	DE92-006478			#
AMSEL-144-114-0000	104	1492-19447	#	CONF-920501-14		N92-25046	#				
							••	DE92-006486			#
ANL/CP-73713p		N92-16546	#	CONF-920501-16		N92-31011	#	DE92-006597			#
ANL/CP-74386 p	37	N92-12410	#	CONF-920501-22		N92-31711	#	DE92-006979	. р 223	N92-23518 #	#
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Анелоголово	, 000	1102-20110	π	CONF-9206106-1			#	DE92-007270			#
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AR-006-650 p	178	N92-18051	#	COM-920603-3	p 333	1405	Ħ	DE92-007547			#
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ARAED-SP-91002 p	329	N92-28247	#	CTN-91-60293			#	DE92-007681	. p 316	N92-26375 #	#
·				CTN-92-60318	p 401	N92-31472	#	DE92-007757	. p 297	N92-26850 #	#
ARI-RN-91-88p	14	N92-10283	#	CTN-92-60329	p 410	N92-32031	#	DE92-008291			#
ARI-RN-91-90p		N92-17567	#	CTN-92-60351	n 444	N92-32790	#	DE92-008446			#
				CTN-92-60353			#				
ARI-RN-92-05p		N92-18516	#					DE92-008799			#
ARI-RN-92-18 p		N92-27971	#	CTN-92-60359			#	DE92-009459			#
ARI-RN-92-22 p		N92-31291	#	CTN-92-60386			#	DE92-010254			#
ARI-RN-92-36p	409	N92-31294	#	CTN-92-60408			#	DE92-010265	. p 336	N92-28278 #	#
ARI-RN-92-39p	437	N92-32990	#	CTN-92-60450	p 189	N92-20440	#	DE92-010477	. p 305	N92-27349 #	#
ARI-RN-92-40p			#	CTN-92-60494	p 306	N92-27702	#	DE92-010577			#
ARI-RN-92-51			**.	CTN-92-60539		N92-27358	#	DE92-010657			#
			#	CTN-92-60568		N92-33588	#				••
ARI-RN-92-90 p	311	N92-2/969	#					DE92-010680			#
				CTN-92-60591	p 445	1492-33000	#	DE92-010953			#
ARI-RR-1576-VOL-1p		N92-13583	#	C		Non 45:55		DE92-011545			#
ARI-RR-1601 p	178	N92-18009	#	CWI-AM-R9024	p 37	N92-12408	#	DE92-011839			#
								DE92-011974		N92-31608 #	#
ARI-TR-930 p	89	N92-14597	#	DCIEM-90-23		N92-32790	#	DE92-013036			#
ARI-TR-936p		N92-15542	#	DCIEM-90-47	p 431	N92-32816	#	DE92-013472			#
н			"	DCIEM-91-10		N92-21378	#	DE92-013674			#
ARL-SYS-TM-150 p	170	NO2 10054	#	DCIEM-91-11		N92-33660	#	DE92-014032			# #
лпьото-ти-тои p	, 1/0	1402-10051	#	DCIEM-91-20		N92-33079	#				
								DE92-014416			#
ARO-25468.1-LS p			#	DCIEM-91-43		N92-18979	#	DE92-014728			#
ARO-25493.13-LS p		N92-21331	#	DCIEM-91-44		N92-20440	#	DE92-015092			#
ARO-25702.1-LS p	186	N92-20704	#	DCIEM-91-62		N92-17599	#	DE92-015218	. р 386	N92-31711	#
ARO-26385.6-LSp			#	DCIEM-91-70	p 437	N92-33588	#	DE92-016530			#
ARO-28409.1-MS		N92-21383	#					DE92-017080			#
ARO-28534.1-MA-CF			#	DE90-012546	p 36	N92-12402	#	DE92-017080			# #
лпо-2000+. I-MA-OF р	, 418	1402-33303	77	DE90-012547		N92-12403	# #				
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ASD-TR-91-5005-VOL-1 p	408	N92-30592	#	DE90-013225			#	DE92-603591			#
				DE90-013702		N92-12387	#	DE92-609034			#
ASI-690-339-90p	89	N92-14597	#	DE91-016966		N92-11612	#	DE92-609049	. p 159	N92-18132 #	#
				DE91-017953	p 2	N92-10276	#	DE92-609575			#
ASI90-328-90-II-VOL-1 p	50	N92-13583	#	DE91-018183		N92-11615	#	DE92-611247			#
70100-020-00-11-VOL-1	, 50	1492-13303	π	DE91-018396		N92-20046	#				
ATC 450		NO0 10555		DE91-018356		N92-20040	#	DE92-613573			#
ATC-152 p	45	N92-13577	#					DE92-613574			#
				DE91-018527		N92-11623	#	DE92-613575			#
BBN-7451 p	399	N92-30306 1	#	DE91-019079		N92-18419	#	DE92-613576	. р 214	N92-21557	#
BBN-7562 p		N92-15545	#	DE91-019080		N92-18025	#	DE92-613577	. p 214	N92-21558 #	#
	-		-	DE91-625187	p 72	N92-15522	#	DE92-613578			#
BNL-46568 p	37	N92-12409	#	DE91-625550		N92-15544	#	DE92-613579			#
BNL-46739				DE91-632213		N92-14596	#	DE92-613580			# #
		N92-25989	#	DE91-635323		N92-14585	#				
BNL-46865 p			#					DE92-613581			#
BNL-47068 p	2/5	N92-25481	#	DE91-638734	p 49	N92-12423	#	DE92-613582	. p 214	N92-21563	#

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DE92-619064	p 250	N92-24022	#		- 404	1100 10011	ш	IAF PAPER 91-101
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DLR-FB-91-18	p 420	N02-10410	#	ETN-91-90099	n 48	N92-12419	#	IAF PAPER 91-547 p 76 A92-18545
DLN-FB-91-10	p 170	1132-13410	п	ETN-91-90099	n 43		#	IAF PAPER 91-549 p 76 A92-18546
DNA-TR-90-157	n 123	N92-17476	#	ETN-91-90103	n 49		#	IAF PAPER 91-550 p 77 A92-18547
DNA-TR-91-111	p 186	N92-20813	#	ETN-91-90116	p 81		#	IAF PAPER 91-551 p 77 A92-18548 *
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				ETN-91-90138	p 43		#	IAF PAPER 91-554 p 77 A92-18551 *
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				ETN-91-90223	р 37	N92-12408	#	IAF PAPER 91-561 ρ 86 A92-18556
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DOE/ER-20021/1		N92-16542	#	ETN-92-91174	p 238		#	IAF PAPER 91-580 p 87 A92-18568
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DOE/ER-60713/T1 DOE/ER-60858/2	p 266	N92-25423	#	ETN-92-91984			#	IAF PAPER 92-0257 p 424 A92-55693
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DOE/ER-60989/2	p 159	N92-18113	#	ETN-92-92128			#	IAF PAPER 92-0260 p 425 A92-55699
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DOE/ER-61241/1	D 275		#	ETS-RR-92-15-ONR	p 401	N92-31444	#	IAF PAPER 92-0264 p 425 A92-55702 *
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DOE/EV-10277/T2	p 160	N92-18887	#	FCC/OET/RTA-91-01	p 192	N92-21493	#	IAF PAPER 92-0266 p 426 A92-55704 *
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DOE/OR-00033/T454			#					IAF PAPER 92-0269 p 416 A92-55707 *
DOE/OR-00033/T455	p 124	N92-17798	#	FOA-B-40392-4.4	p 31	N92-12393	#	IAF PAPER 92-0271 p 441 A92-55708 *
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		A186 :-		FOA-C-40261-4.5			#	IAF PAPER 92-0273 p 441 A92-55710
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	p 400	N92-30488		HEL-TM-17-91				IAF PAPER 92-0283
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DOT/FAA/PM-87/34	p 400 p 45	N92-30488 N92-13577	#	HEL-TM-17-91	р 127 . р 354	N92-17052 N92-28396	#	IAF PAPER 92-0283 p 442 A92-55718 IAF PAPER 92-0294 p 435 A92-55724 IAF PAPER 92-0477 p 435 A92-55812 IAF PAPER 92-0691 p 443 A92-57122
	p 400 p 45	N92-30488	#	HEL-TM-17-91	р 127 . р 354	N92-17052 N92-28396	#	IAF PAPER 92-0283 p 442 A92-55718 * IAF PAPER 92-0294 p 435 A92-55724 IAF PAPER 92-0477 p 435 A92-55812 IAF PAPER 92-0691 p 443 A92-57122 * IAF PAPER 92-0706 p 436 A92-57135 *
DOT/FAA/PM-87/34	p 400 p 45 p 84	N92-30488 N92-13577 N92-15541	#	HEL-TM-17-91 HEL-TN-1-92 HEL-TN-5-92	р 127 р 354 р 431	N92-17052 N92-28396 N92-32916	# # #	IAF PAPER 92-0283 p 442 A92-55718 * IAF PAPER 92-0294 p 435 A92-55724 IAF PAPER 92-0477 p 435 A92-55812 IAF PAPER 92-0691 p 443 A92-57122 * IAF PAPER 92-0706 p 436 A92-57135 * IAF PAPER 92-0713 p 443 A92-57141
DOT/FAA/PM-87/34	p 400 p 45 p 84	N92-30488 N92-13577	#	HEL-TM-17-91HEL-TN-1-92HEL-TN-5-92HEL-TCDOC-587	p 127 p 354 p 431	N92-17052 N92-28396 N92-32916 N92-15544	# # #	IAF PAPER 92-0283 p 442 A92-55718 * IAF PAPER 92-0294 p 435 A92-55724 IAF PAPER 92-0477 p 435 A92-55812 IAF PAPER 92-0691 p 443 A92-57122 * IAF PAPER 92-0706 p 436 A92-57135 * IAF PAPER 92-0713 p 443 A92-57141 IAF PAPER 92-0722 p 443 A92-57150 IAF PAPER 92-0729 p 443 A92-57155 * IAF PAPER 92-0800 p 443 A92-57203 *
DOT/FAA/PM-87/34	p 400 p 45 p 84 p 84	N92-30488 N92-13577 N92-15541 N92-15541	#	HEL-TM-17-91 HEL-TN-1-92 HEL-TN-5-92	p 127 p 354 p 431	N92-17052 N92-28396 N92-32916 N92-15544	# # #	IAF PAPER 92-0283
DOT/FAA/PM-87/34	p 400 p 45 p 84 p 84	N92-30488 N92-13577 N92-15541 N92-15541	#	HEL-TM-17-91	p 127 p 354 p 431 p 89 p 250	N92-17052 N92-28396 N92-32916 N92-15544	# # #	IAF PAPER 92-0283
DOT/FAA/PM-87/34 DOT/FAA/RD-91/20 DOTVNTSC-FAA-91-12 DREO-CR-91-646	p 400 p 45 p 84 p 84 p 306	N92-30488 N92-13577 N92-15541 N92-15541 N92-27702	# # #	HEL-TM-17-91	p 127 p 354 p 431 p 89 p 250 p 79	N92-17052 N92-28396 N92-32916 N92-15544 N92-24022 A92-20654	# # #	IAF PAPER 92-0283
DOT/FAA/PM-87/34	p 400 p 45 p 84 p 84 p 306	N92-30488 N92-13577 N92-15541 N92-15541 N92-27702	# # #	HEL-TM-17-91	p 127 p 354 p 431 p 89 p 250 p 79	N92-17052 N92-28396 N92-32916 N92-15544 N92-24022 A92-20654	# # #	IAF PAPER 92-0283
DOT/FAA/PM-87/34 DOT/FAA/RD-91/20 DOTVNTSC-FAA-91-12 DREO-CR-91-646 DREO-PSD-EPS-05/89	p 400 p 45 p 84 p 84 p 306 p 410	N92-30488 N92-13577 N92-15541 N92-15541 N92-27702 N92-32031	# # # #	HEL-TM-17-91	p 127 p 354 p 431 p 89 p 250 p 79 p 448	N92-17052 N92-28396 N92-32916 N92-15544 N92-24022 A92-20654 A92-57366	# # #	IAF PAPER 92-0283
DOT/FAA/PM-87/34	p 400 p 45 p 84 p 84 p 306 p 410 p 146	N92-30488 N92-13577 N92-15541 N92-15541 N92-27702 N92-32031 N92-17278	# # # # #	HEL-TM-17-91	p 127 p 354 p 431 p 89 p 250 p 79 p 448 p 410	N92-17052 N92-28396 N92-32916 N92-15544 N92-24022 A92-20654 A92-57366	# # #	IAF PAPER 92-0283
DOT/FAA/PM-87/34	p 400 p 45 p 84 p 84 p 306 p 410 p 146 p 172	N92-30488 N92-13577 N92-15541 N92-15541 N92-27702 N92-32031 N92-17278 N92-19333	# # # # # # # # #	HEL-TM-17-91	p 127 p 354 p 431 p 89 p 250 p 79 p 448 p 410 p 3	N92-17052 N92-28396 N92-32916 N92-15544 N92-24022 A92-20654 A92-57366 A92-51848 *	# # #	IAF PAPER 92-0283
DOT/FAA/PM-87/34	p 400 p 45 p 84 p 84 p 306 p 410 p 146 p 172 p 323	N92-30488 N92-13577 N92-15541 N92-15541 N92-27702 N92-32031 N92-17278 N92-19333 N92-27664	# # # # # # # # # # # # # # # # # # # #	HEL-TM-17-91	p 127 p 354 p 431 p 89 p 250 p 79 p 448 p 410 p 3 p 24	N92-17052 N92-28396 N92-32916 N92-15544 N92-24022 A92-20654 A92-57366 A92-51848 *	# # #	IAF PAPER 92-0283
DOT/FAA/PM-87/34	p 400 p 45 p 84 p 84 p 306 p 410 p 146 p 172 p 323	N92-30488 N92-13577 N92-15541 N92-15541 N92-27702 N92-32031 N92-17278 N92-19333 N92-27664	# # # # # # # # #	HEL-TM-17-91	p 127 p 354 p 431 p 89 p 250 p 79 p 448 p 410 p 3 p 24 p 24 p 24	N92-17052 N92-28396 N92-32916 N92-15544 N92-24022 A92-20654 A92-57366 A92-51848 * A92-12125 A92-12427	# # #	IAF PAPER 92-0283
DOT/FAA/PM-87/34	p 400 p 45 p 84 p 306 p 410 p 146 p 172 p 323 p 324	N92-30488 N92-13577 N92-15541 N92-15541 N92-27702 N92-32031 N92-17278 N92-19333 N92-27664 N92-28166	# # # # ###	HEL-TM-17-91 HEL-TN-1-92 HEL-TN-5-92 IAEA-TECDOC-587 IAEA-TECDOC-639 IAF PAPER ST-91-014 IAF PAPER ST-92-0022 IAF PAPER 90-590 IAF PAPER 91-026 IAF PAPER 91-027 IAF PAPER 91-027 IAF PAPER 91-027 IAF PAPER 91-027	p 127 p 354 p 431 p 89 p 250 p 79 p 448 p 410 p 3 p 24 p 24 p 24 p 24	N92-17052 N92-28396 N92-32916 N92-15544 N92-24022 A92-20654 A92-57366 A92-51848 • A92-12125 A92-12125 A92-12427 A92-12447 •	# # #	IAF PAPER 92-0283
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NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190320	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315	N92-21376 * # N92-20668 * # N92-20422 * # N92-21345 * # N92-26030 * # N92-26030 * # N92-26193 * #	NHRC-91-13	396 409 431 393 393 394	N92-28940 # N92-31492 # N92-31327 # N92-32942 # N92-30603 # N92-30644 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-527959	p 357 p 173 p 172 p 238 p 359 p 48 p 306	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-29930 # N92-12419 # N92-27968 #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190334 NASA-CR-190334	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 280	N92-21376 * # N92-20668 * # N92-20422 * # N92-21345 * # N92-26030 * # N92-22030 * # N92-26193 * # N92-25732 * #	NHRC-91-13	396 409 431 393 393 394	N92-28940 # N92-31492 # N92-31327 # N92-32942 # N92-30603 # N92-30616 # N92-30644 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS	p 357 p 173 p 172 p 238 p 359 p 48 p 306	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-29930 # N92-12419 #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190320 NASA-CR-190334 NASA-CR-190341	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 280 . p 304	N92-21376 * # N92-20688 * # N92-20422 * # N92-21345 * # N92-26030 * # N92-22030 * # N92-26193 * # N92-25732 * # N92-26263 * #	NHRC-91-13	396 409 431 393 339 394 266	N92-28940 # N92-31492 # N92-31327 # N92-32942 # N92-30603 # N92-30216 # N92-30644 # N92-26160 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS	p 357 p 173 p 172 p 238 p 359 p 48 p 306 p 49	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-29930 # N92-12419 # N92-12490 #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190320 NASA-CR-190334 NASA-CR-190341 NASA-CR-190429	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 280 . p 304 . p 400	N92-21376 * # N92-20642 * # N92-20422 * # N92-21345 * # N92-26030 * # N92-22030 * # N92-26193 * # N92-25732 * # N92-26263 * # N92-30468 #	NHRC-91-13	396 409 431 393 339 394 266	N92-28940 # N92-31492 # N92-31327 # N92-32942 # N92-30603 # N92-30216 # N92-30644 # N92-26160 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-527959	p 357 p 173 p 172 p 238 p 359 p 48 p 306 p 49	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-29930 # N92-12419 # N92-12490 #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190320 NASA-CR-190334 NASA-CR-190341 NASA-CR-190429 NASA-CR-190448	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 280 . p 304 . p 400 . p 369	N92-21376 * # N92-20682 # N92-20422 * # N92-21345 * # N92-26030 * # N92-22030 * # N92-26193 * # N92-26193 * # N92-26263 * # N92-26263 * # N92-30488 # N92-28671 * #	NHRC-91-13	9 396 9 409 9 431 9 393 9 339 9 394 9 266 9 358	N92-28940 # N92-31492 # N92-31297 # N92-32942 # N92-30603 # N92-30216 # N92-30644 # N92-26160 # N92-29871 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS	p 357 p 173 p 172 p 238 p 359 p 48 p 306 p 49 p 357	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-29930 # N92-12419 # N92-27968 # N92-12420 # N92-29174 * #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190220 NASA-CR-190320 NASA-CR-190341 NASA-CR-190429 NASA-CR-190429 NASA-CR-190448 NASA-CR-190448 NASA-CR-190452	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 280 . p 304 . p 400 . p 369 . p 438	N92-21376 * # N92-20668 * # N92-20422 * # N92-21345 * # N92-26030 * # N92-26193 * # N92-25732 * # N92-25732 * # N92-30488 # N92-30488 # N92-30484 * # N92-34234 * #	NHRC-91-13	9 396 9 409 9 431 9 393 9 339 9 394 9 266 9 358	N92-28940 # N92-31492 # N92-31297 # N92-32942 # N92-30603 # N92-30216 # N92-30644 # N92-26160 # N92-29871 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS	p 357 p 173 p 172 p 238 p 359 p 48 p 306 p 49 p 357	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-29930 # N92-12419 # N92-12490 #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190220 NASA-CR-190320 NASA-CR-190341 NASA-CR-190429 NASA-CR-190429 NASA-CR-190448 NASA-CR-190448 NASA-CR-190452	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 280 . p 304 . p 400 . p 369 . p 438	N92-21376 * # N92-20682 # N92-20422 * # N92-21345 * # N92-26030 * # N92-22030 * # N92-26193 * # N92-26193 * # N92-26263 * # N92-26263 * # N92-30488 # N92-28671 * #	NHRC-91-13	9 396 9 409 9 431 9 393 9 339 9 394 9 266 9 358	N92-28940 # N92-31492 # N92-31297 # N92-32942 # N92-30603 # N92-30216 # N92-30644 # N92-26160 # N92-29871 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS	p 357 p 173 p 172 p 238 p 359 p 48 p 306 p 49 p 357	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-29930 # N92-12419 # N92-27968 # N92-12420 # N92-29174 * #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190320 NASA-CR-190334 NASA-CR-190341 NASA-CR-190448 NASA-CR-190448 NASA-CR-190575	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 280 . p 304 . p 400 . p 369 . p 438 . p 420	N92-21376 * # N92-20688 * # N92-20422 * # N92-21345 * # N92-26030 * # N92-26193 * # N92-25732 * # N92-25732 * # N92-30488 # N92-30488 # N92-30488 * # N92-34234 * # N92-34234 * # N92-343698 * #	NHRC-91-13	9 396 9 409 9 431 9 393 9 339 9 394 9 266 9 358	N92-28940 # N92-31492 # N92-31297 # N92-32942 # N92-30603 # N92-30614 # N92-26160 # N92-29871 # N92-33908 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS RIA-91-29 RIACS-TR-90-10	p 357 p 173 p 172 p 238 p 359 p 48 p 306 p 49 p 357 p 14	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-29930 # N92-12419 # N92-27968 # N92-12420 # N92-29174 * #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190320 NASA-CR-190334 NASA-CR-190341 NASA-CR-190341 NASA-CR-190572 NASA-CR-190572 NASA-CR-190572 NASA-CR-190575 NASA-CR-190614	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 280 . p 304 . p 400 . p 369 . p 438 . p 420	N92-21376 * # N92-20688 * # N92-20422 * # N92-21345 * # N92-26030 * # N92-26030 * # N92-26193 * # N92-25732 * # N92-26263 * # N92-30488 * # N92-34234 * # N92-33698 * # N92-31341 * #	NHRC-91-13	9 396 9 409 9 431 9 393 9 339 9 394 9 266 9 358	N92-28940 # N92-31492 # N92-31297 # N92-32942 # N92-30603 # N92-30614 # N92-26160 # N92-29871 # N92-33908 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS	p 357 p 173 p 172 p 238 p 359 p 48 p 306 p 49 p 357 p 14	N92-29420 # N92-19347 # N92-19255 N92-22670 # N92-29300 # N92-12419 N92-12420 # N92-10282 * #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-19028 NASA-CR-190320 NASA-CR-190334 NASA-CR-190341 NASA-CR-19048 NASA-CR-190572 NASA-CR-190572 NASA-CR-190572 NASA-CR-190693 NASA-CR-190693	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 280 . p 304 . p 369 . p 438 . p 420 . p 401 . p 431	N92-21376 * # N92-20668 * # N92-20422 * # N92-21345 * # N92-26030 * # N92-26193 * # N92-25732 * # N92-25732 * # N92-30488 # N92-30488 # N92-34234 * # N92-33698 * # N92-31341 * # N92-31391 * # N92-31391 * #	NHRC-91-13	9 396 9 409 9 431 9 393 9 339 9 394 9 266 9 358 9 432	N92-28940 # N92-31492 # N92-31297 # N92-32942 # N92-30603 # N92-30644 # N92-26160 # N92-29871 # N92-3998 # N92-26665 #	REPT-001 REPT-108/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-38/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS RIA-91-29 RIACS-TR-90-10 RL-TR-91-177	p 357 p 173 p 172 p 238 p 359 p 48 p 306 p 49 p 357 p 14	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-29300 # N92-12419 # N92-27968 N92-12420 # N92-29174 * # N92-10282 * # N92-15545 #
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NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190320 NASA-CR-190334 NASA-CR-190334 NASA-CR-190448 NASA-CR-190448 NASA-CR-190614 NASA-CR-190614 NASA-CR-190693 NASA-CR-190693 NASA-CR-190819 NASA-CR-190828	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 280 . p 304 . p 400 . p 369 . p 438 . p 420 . p 401 . p 431	N92-21376 * # N92-20668 # N92-20422 * # N92-21345 * # N92-26030 * # N92-26193 * # N92-25732 * # N92-26263 * # N92-30488 # N92-34234 * # N92-34234 * # N92-33423 * # N92-33431 * # N92-33539 * # N92-33547 * # N92-33547 * #	NHRC-91-13	9 396 9 409 9 431 9 393 9 339 9 394 9 266 9 358 9 432 9 317	N92-28940 # N92-31492 # N92-31292 # N92-32942 # N92-30603 # N92-30614 # N92-26160 # N92-29871 # N92-33908 # N92-26665 # N92-29089 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS RIA-91-29 RIACS-TR-90-10 RL-TR-91-177 R91-2-VOL-4	p 357 p 173 p 172 p 238 p 359 p 48 p 306 p 49 p 357 p 14 p 89 p 211	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-2930 # N92-12419 # N92-12420 # N92-10282 * N92-10282 * N92-15545 # N92-20268 * #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190320 NASA-CR-190334 NASA-CR-190341 NASA-CR-190341 NASA-CR-190572 NASA-CR-190572 NASA-CR-190693 NASA-CR-190693 NASA-CR-190693 NASA-CR-190619 NASA-CR-190819 NASA-CR-190828 NASA-CR-190828	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 280 . p 304 . p 400 . p 369 . p 420 . p 401 . p 420 . p 431 . p 420 . p 432 . p 432 . p 432	N92-21376 ° # N92-20668	NHRC-91-13	9 396 9 409 9 431 9 393 9 339 9 394 9 266 9 358 9 432 9 317	N92-28940 # N92-31492 # N92-31292 # N92-32942 # N92-30603 # N92-30614 # N92-26160 # N92-29871 # N92-33908 # N92-26665 # N92-29089 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-38/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS RIA-91-29 RIACS-TR-90-10 RL-TR-91-177 R91-2-VOL-4 S-648	p 357 p 173 p 173 p 172 p 238 p 359 p 48 p 306 p 49 p 357 p 14 p 89 p 211	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-29930 # N92-12419 # N92-12420 # N92-12420 # N92-10282 * # N92-10282 * # N92-15545 # N92-20268 * # N92-19772 * #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190258 NASA-CR-190320 NASA-CR-190334 NASA-CR-190341 NASA-CR-190448 NASA-CR-190448 NASA-CR-190575 NASA-CR-190575 NASA-CR-190614 NASA-CR-190614 NASA-CR-190619 NASA-CR-190828 NASA-CR-190828 NASA-CR-190828 NASA-CR-19028	. p 187 . p 189 . p 189 . p 276 . p 276 . p 192 . p 369 . p 369 . p 400 . p 369 . p 431 . p 420 . p 431 . p 420 . p 187	N92-21376 * # N92-20688 * # N92-20422 * # N92-21345 * # N92-26300 * # N92-26193 * # N92-26193 * # N92-25732 * # N92-30488 # N92-30488 # N92-30488 * # N92-31341 * # N92-31341 * # N92-31341 * # N92-33747 * # N92-33747 * # N92-33747 * # N92-31349 * #	NHRC-91-13	396 409 431 393 339 329 358 432 317 329	N92-28940 # N92-31492 # N92-31292 # N92-32942 # N92-30603 # N92-30614 # N92-26160 # N92-29871 # N92-33908 # N92-26665 # N92-29089 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-36/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS RIA-91-29 RIACS-TR-90-10 RL-TR-91-177 R91-2-VOL-4 S-648 S-651	p 357 p 173 p 172 p 238 p 359 p 48 p 306 p 49 p 357 p 14 p 89 p 211 p 184 p 121	N92-29420 # N92-19347 # N92-1925
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190111 NASA-CR-190118 NASA-CR-190158 NASA-CR-190320 NASA-CR-190334 NASA-CR-190334 NASA-CR-190341 NASA-CR-190429 NASA-CR-190448 NASA-CR-190614 NASA-CR-190614 NASA-CR-190619 NASA-CR-190619 NASA-CR-190819 NASA-CR-190828	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 304 . p 400 . p 369 . p 438 . p 420 . p 401 . p 431 . p 432 . p 435 . p 438 . p 438 . p 438	N92-21376 * # N92-20422 * # N92-20422 * # N92-21345 * # N92-26030 * # N92-26193 * # N92-26193 * # N92-26232 * # N92-32626 * # N92-30488 # N92-30488 # N92-31341 * # N92-31341 * # N92-313398 * # N92-31539 * # N92-31539 * # N92-31549 * # N92-31549 * # N92-31549 * # N92-31549 * #	NHRC-91-13	396 409 431 393 339 329 358 432 317 329	N92-28940 # N92-31492 # N92-31292 # N92-32942 # N92-30603 # N92-30614 # N92-26160 # N92-29871 # N92-33908 # N92-26665 # N92-29089 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-38/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS RIA-91-29 RIACS-TR-90-10 RL-TR-91-177 R91-2-VOL-4 S-648 S-651 S-651	p 357 p 173 p 173 p 238 p 238 p 359 p 48 p 306 p 49 p 357 p 14 p 89 p 211 p 184 p 121 p 125	N92-29420 # N92-19347 # N92-19255 # N92-22670 # N92-29930 # N92-12419 # N92-12420 # N92-12420 # N92-10282 * # N92-10282 * # N92-15545 # N92-20268 * # N92-19772 * #
NASA-CR-190066 NASA-CR-190076 NASA-CR-190112 NASA-CR-190114 NASA-CR-190158 NASA-CR-190258 NASA-CR-190258 NASA-CR-190320 NASA-CR-190334 NASA-CR-190341 NASA-CR-190448 NASA-CR-190448 NASA-CR-190575 NASA-CR-190575 NASA-CR-190614 NASA-CR-190614 NASA-CR-190619 NASA-CR-190828 NASA-CR-190828 NASA-CR-190828 NASA-CR-19028	. p 187 . p 189 . p 186 . p 213 . p 276 . p 192 . p 315 . p 304 . p 400 . p 369 . p 438 . p 420 . p 401 . p 431 . p 432 . p 435 . p 438 . p 438 . p 438	N92-21376 * # N92-20688 * # N92-20422 * # N92-21345 * # N92-26300 * # N92-26193 * # N92-26193 * # N92-25732 * # N92-30488 # N92-30488 # N92-30488 * # N92-31341 * # N92-31341 * # N92-31341 * # N92-33747 * # N92-33747 * # N92-33747 * # N92-31349 * #	NHRC-91-13	396 409 431 393 339 339 36 266 358 358 3432 317 329 446	N92-28940 # N92-31492 # N92-31292 # N92-32942 # N92-30603 # N92-30614 # N92-26160 # N92-29871 # N92-33908 # N92-26665 # N92-29089 # N92-33932 N92-13579 #	REPT-001 REPT-1168/CEV/SE/LAMAS REPT-1169/CEV/SE/LAMAS REPT-130/1991/TPS REPT-255-6491-1 REPT-36/CEV/SE/LAMAS REPT-5-27959 REPT-9/CEV/SE/LAMAS RIA-91-29 RIACS-TR-90-10 RL-TR-91-177 R91-2-VOL-4 S-648 S-651	p 357 p 173 p 173 p 238 p 238 p 359 p 48 p 306 p 49 p 357 p 14 p 89 p 211 p 184 p 121 p 125	N92-29420 # N92-19347 # N92-1925
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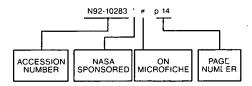
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A92-50170	p 390	A92-52461 * #	p 399	A92-55718 *	p 442	N92-11629 *# p 8	N92-13591 *#	p 52
A92-50171	p 390	A92-52526 *	p 408 p 399	A92-55724	p 435	N92-11630 # p 15	N92-13592 * #	p 52
A92-50173 *	p 391	A92-52527	p 384	A92-55812	p 435	N92-11631 # p 15	N92-13593 * #	p 52
A92-50174	p 397	A92-52955 A92-53001	p 384 p 399	A92-55965	p 442	N92-11631 # p 15	N92-13594 * #	p 52
A92-50175	р 398		p 393	A92-55969	p 442	N92-11633 # p 16	N92-13595 *#	p 53
A92-50176	ρ 375	A92-53002 A92-53003	p 384	A92-56060	p 435	N92-11634 # p 16	N92-13596 *#	р 53
A92-50179 *	p 403	A92-53620	p 438	A92-56197	p 426	N92-11635 # p 16	N92-13597 * #	p 53
A92-50180	p 404	A92-53621	p 438	A92-56198	p 426	N92-11636 # p 16	N92-13598 * #	p 53
A92-50181	ρ 404	A92-53622	p 438	A92-56260	p 417	N92-11637 *# p 26	N92-13599 * #	p 53
A92-50182	ρ 404	A92-53623	p 439	A92-56261	p 426	N92-11638 * # p 26	N92-13600 *#	p 53
A92-50183	p 404	A92-53624	p 439	A92-56262	p 417	N92-12387 # p 30	N92-13601 *#	p 54
A92-50184	ρ 404	A92-53625	p 439	A92-56263	p 426	N92-12388 * # p 30	N92-13602 * #	p 54
A92-50185 *	ρ 404	A92-53665	p 439	A92-56264	p 417	N92-12389 * # p 31	N92-13603 * #	p 54
A92-50186	ρ 405	A92-53666	p 439	A92-56265	p 417	N92-12390 *# p 31	N92-13604 * #	p 54
A92-50187 *	ρ 375	A92-53667	p 439	A92-56266	p 417	N92-12391 # p31	N92-13605 * #	p 54
A92-50188 *	ρ 391	A92-53735	p 413	A92-56267	p 443	N92-12392 * # p 31	N92-13606 * # N92-13607 * #	p 55 p 55
A92-50240	ρ 405	A92-53736	p 413	A92-56268	p 435	N92-12393 # p 31	N92-13608 *#	p 55
A92-50281	ρ 398	A92-53737	p 413	A92-56461 *	p 427	N92-12394 # p31	N92-13609 * #	p 55
A92-50282	p 405	A92-53738	p 413	A92-56462	p 427	N92-12395 # p 32	N92-13610 * #	p 56
A92-50283	p 391	A92-53739	p 421	A92-56463	p 427	N92-12396 # p 32	N92-13611 *#	p 56
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A92-50285	ρ 376	A92-53741	p 422	A92-56466	p 427 p 427	N92-12398 # p 32	N92-13613 *#	p 56
A92-50286	ρ 391	A92-53742	p 422	A92-56467	p 428	N92-12399 # p 32	N92-13614 * #	p 57
A92-50287	ρ 392 - 270	A92-53743	p 413	A92-56468	p 428	N92-12400 # p 32	N92-13615 *#	p 57
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A92-50291	p 398	A92-53746	p 414	A92-56471	p 435	N92-12403 # p 36	N92-13618 * #	p 58
A92-50291	p 392	A92-53747	p 414	A92-56472	p 428	N92-12404 * p 36 N92-12405 # p 37	N92-13619 * #	p 58
A92-50831 *	p 376	A92-53748	p 414	A92-56628 *	p 428	N92-12405 # p 37	N92-13620 * #	p 58
A92-51413 *	p 410	A92-53749	p 414 p 415	A92-56703	p 429	N92-12407 # p 37	N92-13621 *#	p 58
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A92-51472 *	p 376	A92-53766 A92-53768	p 415 p 415	A92-56706	p 418	N92-12409 # p 37	N92-13625 * #	p 59
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A92-51474 *	ρ 377	A92-54215	p 439	A92-56944	p 429	N92-12411 # p 38	N92-13627 * #	p 59
A92-51475	p 377	A92-54216	p 433	A92-56945	p 418	N92-12412 * p 38	N92-13628 * #	p 59
A92-51476 *	ρ 377	A92-54217	p 440	A92-56946 *	p 418	N92-12413 # p 43	N92-13629 * # N92-13630 * #	р 59 р 59
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A92-51478 *	p 377	A92-54280 *	p 440	A92-56952 A92-56953 *	p 436 p 443	N92-12415 p 48	N92-13632 * #	p 60
A92-51479 *	p 378	A92-54281	p 440	A92-56954	p 436	N92-12416 *# p 48	N92-13633 * #	p 60
A92-51480 *	p 378	A92-54282 *	p 440	A92-57122 *	p 443	N92-12417 # p 48	N92-13634 * #	p 60
A92-51481 *	p 378 n 378	A92-54547	p 422	A92-57135 °	p 436	N92-12418 # p 48	N92-13635 * #	p 60
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A92-51486 *	p 379	A92-54727 *	p 422	A92-57203 *	p 443	N92-12422 # p 49 N92-12423 # p 49	N92-13639 * #	p 61
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A92-51488 *	p 379	A92-54729 *	p 423	A92-57213	p 444	N92-12424 # p 49	N92-13641 *#	p 62
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A92-51492	p 380	A92-54733 *	p 423 p 424	A92-57277 *	p 429	N92-13548 # p 43	N92-13645 * #	p 62
A92-51493	p 380	A92-54735	p 434	A92-57278 *	p 430	N92-13549 # p 38	N92-13646 *#	p 63
A92-51494 *	p 381	A92-54736	p 434	A92-57279	p 430	N92-13550 # p 43	N92-13647 * #	p 63
A92-51495 *	p 381	A92-54947 *	p 447	A92-57280	p 430	N92-13551 # p 43	N92-13648 * #	p 63
A92-51496	p 381	A92-54949	p 424	A92-57366	p 448	N92-13552 # p 43	N92-13649 * #	p 63
A92-51497	p 381	A92-55068	p 424	NIO0 40070 "	- 2	N92-13553 # p 38	N92-13650 * # N92-13651 * #	р 64 р 64
A92-51498 *	p 381	A92-55070	p 434	N92-10276 #	p 2	N92-13554 # p 43	N92-13652 *#	p 64
A92-51499	p 382	A92-55075	p 415	N92-10277	p 4	N92-13555 # p 44	N92-13653 *#	р 64 р 64
A92-51500	p 382	A92-55155 #	p 440	N92-10278 #	p 4	N92-13556 # p 44	N92-13654 *#	p 65
A92-51632	p 405	A92-55488	p 440	N92-10279 # N92-10280 #	p 4 p 4	N92-13557 # p 44	N92-13662 *#	p 65
A92-51701	p 405	A92-55535	p 440	N92-10280 #	p 4 p 4	N92-13558 # p 44	N92-13663 *#	p 65
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N92-14581 # p 72 N92-14582 # p 72	N92-17471 # p 109	N92-19021 # p 183	N92-21481 * # p 196	N92-23139 # p 234
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N92-14584 # p 81	N92-17474 # p 109	N92-19023 # p 183	N92-21483 *# p 197	N92-23424 * # p 234
N92-14585 # p 81	N92-17476 # p 123	N92-19031 # p 172	N92-21484 *# p 197	N92-23429 * # p 251
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N92-14587 # p 83	N92-17503 # p 128	N92-19069 # p 175	N92-21506 # p197 N92-21549 *# p213	N92-23518 # p 223
N92-14588 # p 83	N92-17504 # p 110 N92-17554 # p 128	N92-19083 # p 176	N92-21554 # p 213	N92-23603 * # p 234
N92-14589 # p83	N92-17557 # p 128	N92-19087 # p 172	N92-21555 # p 214	N92-23604 * # p 223
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N92-25899 *#	p 291	N92-27433 * p 306	N92-29591 # p 358	N92-32105 # p 402
	p 291	N92-27444 # p 308	N92-29592 # p 358	N92-32107 # p 397
N92-25961 *#	•	N92-27500 # p 308	N92-29620 # p 358	N92-32120 # p 386
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N92-25993 #	p 276	N92-27509 # p 309	N92-29733 # p 330	N92-32345 # p 418
N92-26023 #	p 281	N92-27512 # p 309	N92-29733 # p 330	N92-32433 # p 444
N92-26025 #	p 291 p 276	N92-27535 # p 309	N92-29735 # p 330	N92-32434 # p 430
N92-26030 * # N92-26158 #	p 292	N92-27537 # p 309	N92-29736 # p 330	N92-32492 # p 430
N92-26160 #	p 266	N92-27538 # p 310	N92-29737 # p 330	N92-32504 # p 430
N92-26179 #	p 314	N92-27664 # p 323	N92-29738 # p 330	N92-32539 * # p 431 N92-32569 # p 436
N92-26186 #	p 315	N92-27702 # p 306	N92-29739 # p 331	N92-32571 # p 418
N92-26193 * #	p 315	N92-27822 # p310 N92-27825 # p310	N92-29740 # p 331	N92-32660 # p 436
N92-26203 #	p 296	N92-27839 # p310	N92-29754 # p 331	N92-32663 # p 431
N92-26242 #	p 315	N92-27844 # p 306	N92-29755 # p 331	N92-32790 # p 444
N92-26243 #	p 315	N92-27863 # p 310	N92-29756 # p 331	N92-32816 # p 431
N92-26255 #	p 315	N92-27877 * # p 299	N92-29757 # p 331	N92-32817 # p 436
N92-26263 * #	p 304	N92-27910 # p310	N92-29758 # p 332 N92-29759 # p 332	N92-32844 # p 418
N92-26266 * #	p 296	N92-27968 # p 306	N92-29759 # p 332	N92-32916 # p 431
N92-26289 # N92-26355 #	р 296 р 315	N92-27969 # p 311	N92-29871 # p 358	N92-32942 # p 431
N92-26375 #	p 316	N92-27971 # p 311	N92-29930 # p 359	N92-32990 # p 437
N92-26470 #	p 304	N92-27989 # p 311	N92-29949 # p 371	N92-33032 * p 431 N92-33056 # p 444
N92-26472 #	p 316	N92-27990 # p 324 N92-27991 # p 324	N92-30125 * # p 372	N92-33079 # p 444
N92-26493 #	p 296	N92-28050 # p311	N92-30126 * # p 372	N92-33099 p 444
N92-26494 #	р 316	N92-28071 # p 324	N92-30127 * # p 359	N92-33103 * # p 419
N92-26512 #	p 304	N92-28094 # p 311	N92-30216 # p 339	N92-33181 # p 419
N92-26528 #	p 316	N92-28135 # p 307	N92-30254 # p 399	N92-33254 # p 432
N92-26538 * #	p 316	N92-28142 # p 311	N92-30305 * # p 384 N92-30306 * # p 399	N92-33301 # p 419
N92-26665 # N92-26682 * #	p 317	N92-28157 * # p 324	N92-30306 # p 393	N92-33345 *# p 445
N92-26721 #	р 317 р 297	N92-28164 # p 312	N92-30320 # p 400	N92-33346 * # p 445
N92-26721 # N92-26850 #	p 297	N92-28166 # p 324	N92-30325 # p 400	N92-33348 * # p 445 N92-33390 # p 437
N92-26891 #	p 317	N92-28170 # p 312	N92-30328 # p 393	N92-33390 # p 437
N92-26938 #	p 297	N92-28176 # p 312 N92-28179 # p 312	N92-30336 # p 400	N92-33464 # p 432
N92-26950 #	p 317	N92-28212 * # p 307	N92-30368 # p 384	N92-33465 # p 419
N92-26951 #	p 317	N92-28242 # p 336	N92-30376 # p 393	N92-33563 # p 419
N92-26952 #	р 317	N92-28247 # p 329	N92-30381 *# p 408	N92-33588 # p 437
N92-26953 *#	p 318	N92-28278 # p 336	N92-30488 # p 400	N92-33650 # p 432
N92-26954 #	p 318	N92-28286 # p 368	N92-30523 # p 393 N92-30531 # p 385	N92-33651 # p419
N92-26955 #	p 318	N92-28288 # p 336	N92-30531 # p 365 N92-30592 # p 408	N92-33657 *# p 432
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